# Pioneer sound.vision.soul

# Service Manual

ORDER NO. ARP3313

# PRO-1130HD PRO-930HD

#### THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Model	Туре	Power Requirement	Remarks
PRO-1130HD	_	AC120V	
PRO-930HD	_	AC120V	

#### PRO-1130HD is combination of the following components.

	Component	System	Service Manual	Remarks
F	PLASMA DISPLAY SYSTEM	PRO-1130HD	ARP3313	This manual.
	PLASMA DISPLAY	PRO-506PU/KUC	ARP3290	
	MEDIA RECEIVER	PRO-R06U/KUCXC	ARP3279, ARP3280	
	SPEAKER SYSTEM	PDP-S36/XIN/UC	RRV3220	

#### PRO-930HD is combination of the following components.

	Component	System	Service Manual	Remarks
Р	LASMA DISPLAY SYSTEM	PRO-930HD	ARP3313	This manual.
	PLASMA DISPLAY	PRO-436PU/KUC	ARP3291	
	MEDIA RECEIVER	PRO-R06U/KUCXC	ARP3279, ARP3280	
	SPEAKER SYSTEM	PDP-S35/XTW/UC	RRV3233	

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# Service Manual

ORDER NO. ARP3290

# PRO-506PU

#### THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Type	Model	Power Requirement	Remarks	
Туре	PRO-506PU	Power nequirement	nemarks	
KUC	0	AC120V		

#### • This service manual should be used together with the following manual(s):

Model No.	Order No.	Remarks
PDP-506PE/WYVI	ARP3267	SAFETY INFORMATION, EXPLODED VIEWS AND PARTS LIST, BLOCK DIAGRAM, PCB PARTS LIST, ADJUSTMENT, IC INFORMATION etc.

### 1. CONTRAST OF MISCELLANEOUS PARTS

NOTES: • Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.

- The riangle mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Screws adjacent to **▼** mark on product are used for disassembly.
- Reference Nos. indicate the pages and Nos. in the service manual for the base model.
- When ordering resistors, first convert resistance values into code form as shown in the following examples.

  Ex. 1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

 $5.62k \rightarrow 562 \times 10^{1} \rightarrow 5621$  RN1/4PC 5 6 2 1 F

#### **■ CONTRAST TABLE**

PRO-506PU/KUC and PDP-506PE/WYVI are constructed the same except for the following:

			Part No.		
Ref. No.	Mark	Symbol and Description	PDP-506PE WYVI	PRO-506PU KUC	Remarks
		PCB ASSY			
P17 - 1	NSP	50 X DRIVE ASSY	AWV2257	AWV2209	
		└ 50 X DRIVE ASSY	AWW1075	AWW1020	
P17 - 4		50 Y DRIVE ASSY	AWV2258	AWV2210	
		PACKING			
P9 - 1	<u> </u>	Power Cord	ADG1214	ADG1215	
P9 - 6	NSP	Warranty	ARY1114	ARY1134	
P9 - 7		Ferrite Core	ATX1039	Not used	
P9 - 12		Power Cord Case	AHC1073	Not used	
P9 - 14		Upper Carton	AHD3345	AHD3421	
		REAR SECTION			
P11 - 6	NSP	Name Label (506PE)	AAL2661	Not used	
P11 - 6	NSP	Name Label (506EL)	Not used	AAL2712	
P11 - 8		AC Label PE	AAX3194	Not used	
		FRONT SECTION			
P13 - 1		F. Case Assy (506PE)	AMB2861	Not used	
P13 - 1		F. Case Assy (506EL)	Not used	AMB2857	
P13 - 3		Badge	AAM1098	Not used	
P13 - 3		Elite Badge	Not used	AAM1102	

#### ■ CONTRAST OF PCB ASSEMBLIES

#### • 50 X DRIVE ASSY

AWW1020 and AWW1075 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
IVIAIK	Symbol and Description	AWW1075	AWW1020	nemarks
	[50 X RESONANCE BLOCK]			
	IC1101	AXF1142	AXF1155	
	C1101	ACG1112	ACG1088	
		(0.22 UF/250V)	(0.1UF/250V)	
	C1106 - C1110	Not used	ACE1178	
	C1112, C1113	ACG1112	Not used	
		(0.22UF/250V)		
	C1161 - C1164, C1166	ACE1168	Not used	

#### • 50 Y DRIVE ASSY

AWV2210 and AWZ2258 are constructed the same except for the following:

Mark	Symbol and Description	Part No.		Remarks
IVIAIK	Symbol and Description	AWV2258	AWV2210	nemarks
	[50 Y RESONANCE BLOCK]			
	IC2101	AXF1142	AXF1155	
	C2103	ACG1112	ACG1088	
		(0.22UF/250V)	(0.1UF/250V)	
	C2107, C2108	ACG1112	Not used	
		(0.22UF/250V)		
	C2131- C2134, C2136	ACE1168	ACE1178	
	[50 Y SUS BLOCK]			
	C2271	ACG1124	ACG1118	
		(0.1UF/100V)	(0.33UF/100V)	
	C2272	ACG1124	Not used	
		(0.1UF/100V)		

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PRO-506PU

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# Service Manual



ORDER NO. ARP3267

PLASMA DISPLAY

# PDP-506PU PDP-506PU

#### THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Model	Туре	Power Requirement	Remarks
PDP-506PE	WYVI	AC220 - 240V	
PDP-506PU	KUCXC	AC120V	

#### Note:

Media Receivers up to Generation 5 (G5) cannot be connected with this unit. Be sure to use a Media Receiver of Generation 6 (G6) (ex.: PDP-R06\*\*, etc.).



For details, refer to "Important Check Points for good servicing".

PIONEER CORPORATION 4-1, Meguro 1-chome, Meguro-ku, Tokyo 153-8654, Japan PIONEER ELECTRONICS (USA) INC. P.O. Box 1760, Long Beach, CA 90801-1760, U.S.A. PIONEER EUROPE NV Haven 1087, Keetberglaan 1, 9120 Melsele, Belgium PIONEER ELECTRONICS ASIACENTRE PTE. LTD. 253 Alexandra Road, #04-01, Singapore 159936 © PIONEER CORPORATION 2005

### **SAFETY INFORMATION**

This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.

Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

#### WARNING

This product contains lead in solder and certain electrical parts contain chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm.

Health & Safety Code Section 25249.6 - Proposition 65

#### NOTICE

(FOR CANADIAN MODEL ONLY)

■ Fuse symbols - (fast operating fuse) and/or - (slow operating fuse) on PCB indicate that replacement parts must be of identical designation.

#### REMARQUE

(POUR MODÈLE CANADIEN SEULEMENT)

Les symboles de fusible (fusible de type rapide) et/ou (fusible de type lent) sur CCI indiquent que les pièces de remplacement doivent avoir la même désignation.

#### SAFETY PRECAUTIONS

NOTICE: Comply with all cautions and safety related notes located on or inside the cabinet and on the chassis.

The following precautions should be observed:

- When service is required, even though the PDP UNIT an isolation transformer should be inserted between the power line and the set in safety before any service is performed.
- 2. When replacing a chassis in the set, all the protective devices must be put back in place, such as barriers, nonmetallic knobs, adjustment and compartment covershields, isolation resistor-capacitor, etc.
- 3. When service is required, observe the original lead dress. Extra precaution should be taken to assure correct lead dress in the high voltage circuitry area.
  - 4. Always use the manufacture's replacement components. Especially critical components as indicated on the circuit diagram should not be replaced by other manufacture's. Furthermore where a short circuit has occurred, replace those components that indicate evidence of overheating.
  - 5. Before returning a serviced set to the customer, the service technician must thoroughly test the unit to be certain that it is completely safe to operate without danger of electrical shock, and be sure that no protective device built into the set by the manufacture has become defective, or inadvertently defeated during servicing. Therefore, the following checks should be

performed for the continued protection of the customer and

- 6. Perform the following precautions against unwanted radiation and rise in internal temperature.
- Always return the internal wiring to the original styling.
- Attach parts (Gascket, Ferrite Core, Ground, Rear Cover, Shield Case etc.) surely after disassembly.
- 7. Perform the following precautions for the PDP panel.
- When the front case is removed, make sure nothing hits the panel face, panel corner, and panel edge (so that the glass does not break).
- Make sure that the panel vent does not break. (Check that the cover is attached.)
- Handle the FPC connected to the panel carefully.

  Twisting or pulling the FPC when connecting it to the connector will cause it to peel off from the panel.
- 8. Pay attention to the following.
- Pay extreme caution when the front case and rear panel are removed because this may cause a high risk of disturbance to TVs and radios in the surrounding.

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PDP-506PE

#### **Leakage Current Cold Check**

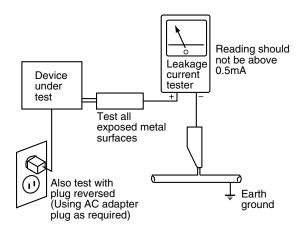
With the AC plug removed from an AC power source, place a jumper across the two plug prongs. Turn the AC power switch on. Using an insulation tester (DC 500V), connect one lead to the jumpered AC plug and touch the other lead to each exposed metal part (input/output terminals, screwheads, metal overlays, control shafts, etc.), particularly any exposed metal part having a return path to the chassis. Exposed metal parts having a return path to the chassis should have a minimum resistor reading of  $0.3 M\Omega$  and a maximum resistor reading of  $5 M\Omega$ . Any resistor value below or above this range indicates an abnormality which requires corrective action. Exposed metal parts not having a return path to the chassis will indicate an open circuit.

#### **Leakage Current Hot Check**

Plug the AC line cord directly into an AC power source (do not use an isolation transformer for this check).

Turn the AC power switch on.

Using a "Leakage Current Tester (Simpson Model 229 equivalent)", measure for current from all exposed metal parts of the cabinet (input/output terminals, screwheads, metal overlays, control shaft, etc.), particularly any exposed metal part having a return path to the chassis, to a known earth ground (water pipe, conduit, etc.). Any current measured must not exceed 0.5mA.



AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE SET TO THE CUSTOMER.

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#### PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in PIONEER set have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a  $\triangle$  on the schematics and on the parts list in this Service Manual.

The use of a substitute replacement component which dose not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

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#### **■** Charged Section

The places where the commercial AC power is used without passing through the power supply transformer.

If the places are touched, there is a risk of electric shock. In addition, the measuring equipment can be damaged if it is connected to the GND of the charged section and the GND of the non-charged section while connecting the set directly to the commercial AC power supply. Therefore, be sure to connect the set via an insulated transformer and supply the current.

#### B 1. Power Cord

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- 2. AC Inlet
- 3. Power Switch (S1)
- 4. Fuse (In the POWER SUPPLY Unit)
- 5. STB Transformer and Converter Transformer (In the POWER SUPPLY Unit)
- 6. Other primary side of the POWER SUPPLY Unit

#### ■ High Voltage Generating Point

The places where voltage is 100V or more except for the charged places described above. If the places are touched, there is a risk of electric shock.

If the procedures described in "7.1.5 POWER ON/OFF FUNCTION FOR THE LARGE-SIGNAL SYSTEM" are performed before the power is turned off, the voltage will be discharged in about 30 seconds.

1. POWER SUPPLY Unit	(205V)
2. 50 X DRIVE Assy	(-180V to 205V)
3. 50 Y DRIVE Assy	(500V)
4. 50 SCAN A Assy	(500V)
5. 50 SCAN B Assy	(500V)
6. SUS CLAMP 1 Assy	(-180V to 205V)
7. SUS CLAMP 2 Assy	(-180V to 205V)

: Part is Charged Section.

 Part is the High Voltage Generating Points other than the Charged Section.

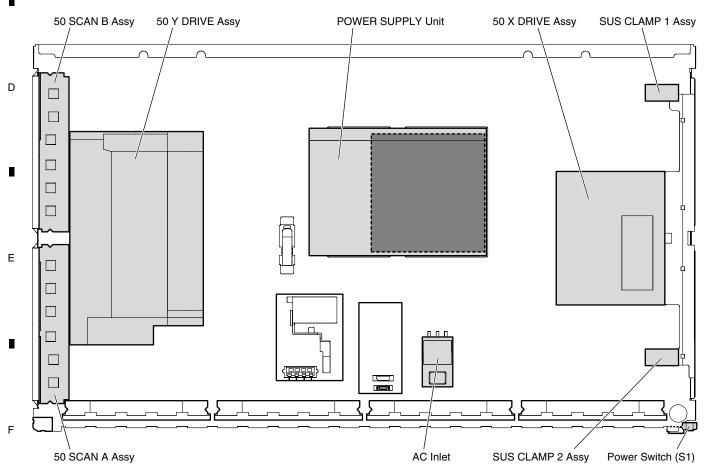


Fig.1 Charged Section and High Voltage Generating Point (Rear View)

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In this manual, procedures that must be performed during repairs are marked with the below symbol.

Please be sure to confirm and follow these procedures.

#### Product safety



Please conform to product regulations (such as safety and radiation regulations), and maintain a safe servicing environment by following the safety instructions described in this manual.

1) Use specified parts for repair.

Use genuine parts. Be sure to use important parts for safety.

② Do not perform modifications without proper instructions.

Please follow the specified safety methods when modification(addition/change of parts) is required due to interferences such as radio/TV interference and foreign noise.

3 Make sure the soldering of repaired locations is properly performed.

When you solder while repairing, please be sure that there are no cold solder and other debris. Soldering should be finished with the proper quantity. (Refer to the example)

4 Make sure the screws are tightly fastened.

Please be sure that all screws are fastened, and that there are no loose screws.

⑤ Make sure each connectors are correctly inserted.

Please be sure that all connectors are inserted, and that there are no imperfect insertion.

6 Make sure the wiring cables are set to their original state.

Please replace the wiring and cables to the original state after repairs. In addition, be sure that there are no pinched wires, etc.

Make sure screws and soldering scraps do not remain inside the product.

Please check that neither solder debris nor screws remain inside the product.

® There should be no semi-broken wires, scratches, melting, etc. on the coating of the power cord.

Damaged power cords may lead to fire accidents, so please be sure that there are no damages. If you find a damaged power cord, please exchange it with a suitable one.

There should be no spark traces or similar marks on the power plug.

When spark traces or similar marks are found on the power supply plug, please check the connection and advise on secure connections and suitable usage. Please exchange the power cord if necessary.

10 Safe environment should be secured during servicing.

When you perform repairs, please pay attention to static electricity, furniture, household articles, etc. in order to prevent injuries. Please pay attention to your surroundings and repair safely.

#### 2. Adjustments



To keep the original performance of the products, optimum adjustments and confirmation of characteristics within specification. Adjustments should be performed in accordance with the procedures/instructions described in this manual.

#### 3. Lubricants, Glues, and Replacement parts



Use grease and adhesives that are equal to the specified substance. Make sure the proper amount is applied.

#### 4. Cleaning



For parts that require cleaning, such as optical pickups, tape deck heads, lenses and mirrors used in projection monitors, proper cleaning should be performed to restore their performances.

#### 5. Shipping mode and Shipping screws

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To protect products from damages or failures during transit, the shipping mode should be set or the shipping screws should be installed before shipment. Please be sure to follow this method especially if it is specified in this manual.

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### 1. SPECIFICATIONS

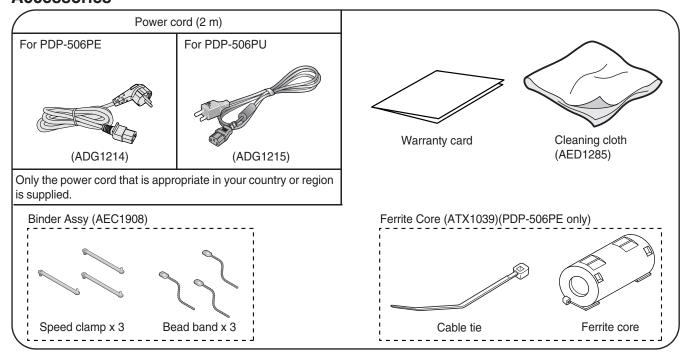
Item	50" Plasma Display, Model: PDP-506PE	50" Plasma Display, Model: PDP-506PU
Number of Pixels	1280 × 768 pixels	1280 × 768 pixels
Audio Amplifier	13 W + 13 W (1 kHz, 10 %, 8Ω)	13 W + 13 W (1 kHz, 10 %, 8Ω)
Surround System	SRS/FOCUS/TruBass	SRS/FOCUS/TruBass
Power Requirement	220 - 240 V AC, 50/60 Hz, 344 W (0.4 W Standby)	120 V AC, 60 Hz, 355 W (0.2 W Standby)
Dimensions	1224 (W) × 717 (H) × 92 (D) mm	1224 (W) × 717 (H) × 92 (D) mm (48 3/16 (W) × 28 1/4 (H) × 3 5/8 (D) inches)
Weight	31.8 kg (70.1 lbs.)	31.8 kg (70.1 lbs.)

• Design and specifications are subject to change without notice.

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#### **Accessories**



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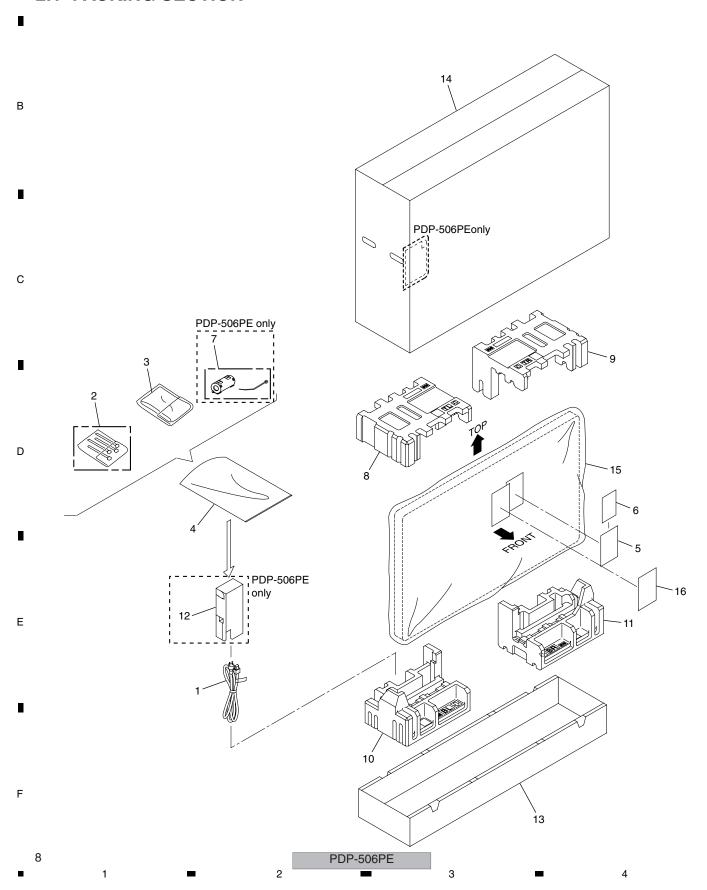
## 2. EXPLODED VIEWS AND PARTS LIST

NOTES: ● Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.

- The  $\triangle$  mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Screws adjacent to ▼ mark on product are used for disassembly.
- For the applying amount of lubricants or glue, follow the instructions in this manual. (In the case of no amount instructions, apply as you think it appropriate.)

#### 2.1 PACKING SECTION

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#### (1) PACKING SECTION PARTS LIST

Mark	<u>No.</u>	<u>Description</u>	Part No.
<u> </u>	1	Power Cord	See Contrast table (2)
	2	Binder Assy	AEC1908
	3	Cleaning Cloth	AED1285
	4	Polyethylene Bag S	See Contrast table (2)
NSP	5	Catalogue Bag	See Contrast table (2)
NSP	6	Warranty card	See Contrast table (2)
₫.	7	Ferrite Core	See Contrast table (2)
	8	Pad (50T-L)	See Contrast table (2)
	9	Pad (50T-R)	See Contrast table (2)
	10	Pad (50B-L)	See Contrast table (2)
	11	Pad (50B-R)	See Contrast table (2)
	12	Power Cord Case	See Contrast table (2)
	13	Under Carton	See Contrast table (2)
	14	Upper Carton	See Contrast table (2)
	15	Mirror Mat	See Contrast table (2)
	16	Caution Card	See Contrast table (2)

#### (2) CONTRAST TABLE

PDP-506PE/WYVI and PDP-506PU/KUCXC are constructed the same except for the following:

Mark	No.	Symbol and Description	PDP-506PE/WYVI	PDP-506PU/KUCXC
<u> </u>	1	Power Cord	ADG1214	ADG1215
	4	Polyethylene Bag S	AHG1338	AHG1348
NSP	5	Catalogue Bag	AHG1340	AHG1347
NSP	6	Warranty Card	ARY1114	ARY1145
<u> </u>	7	Ferrite Core	ATX1039	Not used
	8	Pad (50T-L)	AHA2427	AHA2459
	9	Pad (50T-R)	AHA2428	AHA2460
	10	Pad (50B-L)	AHA2429	AHA2461
	11	Pad (50B-R)	AHA2430	AHA2462
	12	Power Cord Case	AHC1073	Not used
	13	Under Carton (50)	AHD3344	Not used
	13	Under Carton (506PU)	Not used	AHD3379
	14	Upper Carton (506PE)	AHD3345	Not used
	14	Upper Carton (506PU)	Not used	AHD3383
	15	Mirror Mat	AHG1284	AHG1352
	16	Caution Card	ARM1232	ARM1239

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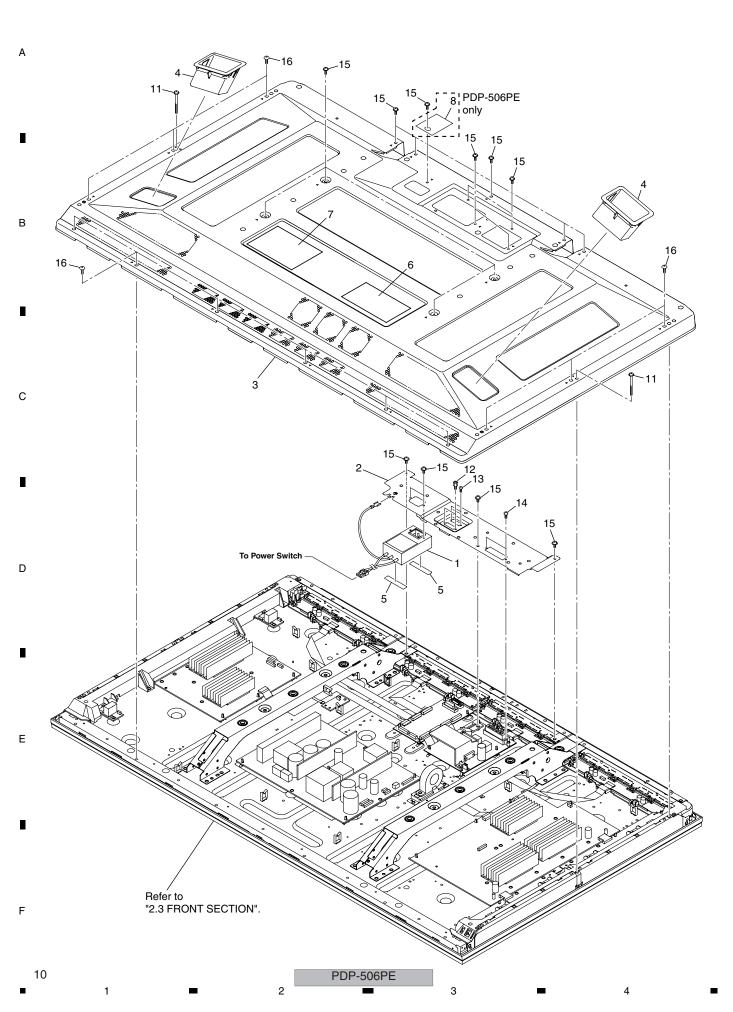
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#### (1) REAR SECTION PARTS LIST

Mark I	<u>No.</u>	Description	Part No.	
<u> </u>	1	AC Inlet	AKP1274	
	2	Control Plate	AND1185	Α
	3	Rear Case (506)	ANE1639	
	4	Inner Grip Assy	AMR3434	
	5	AC Cushion	AEC2035	
NSP	6	Model Label	See Contrast table (2)	
	7	Caution Label	See Contrast table (2)	
	8	AC Label PE	See Contrast table (2)	
	9	••••		
	10	••••		
	11	Screw (3 x 40P)	ABA1332	В
	12	Hexagon Head Screw	BBA1051	
	13	Screw	PMZ26P060FTB	
	14	Screw	BPZ30P080FTB	
	15	Screw	AMZ30P060FTB	
	16	Screw	TBZ40P080FTB	

(2) CONTRAST TABLE
PDP-506PE/WYVI and PDP-506PU/KUCXC are constructed the same except for the following:

Mark	No.	Symbol and Description	PDP-506PE/WYVI	PDP-506PU/KUCXC
NSP	6	Model Label (506PE)	AAL2661	Not used
NSP	6	Model Label (506PU)	Not used	AAL2679
	7	Caution Label	AAX3117	AAX3075
	8	AC Label PE	AAX3194	Not used

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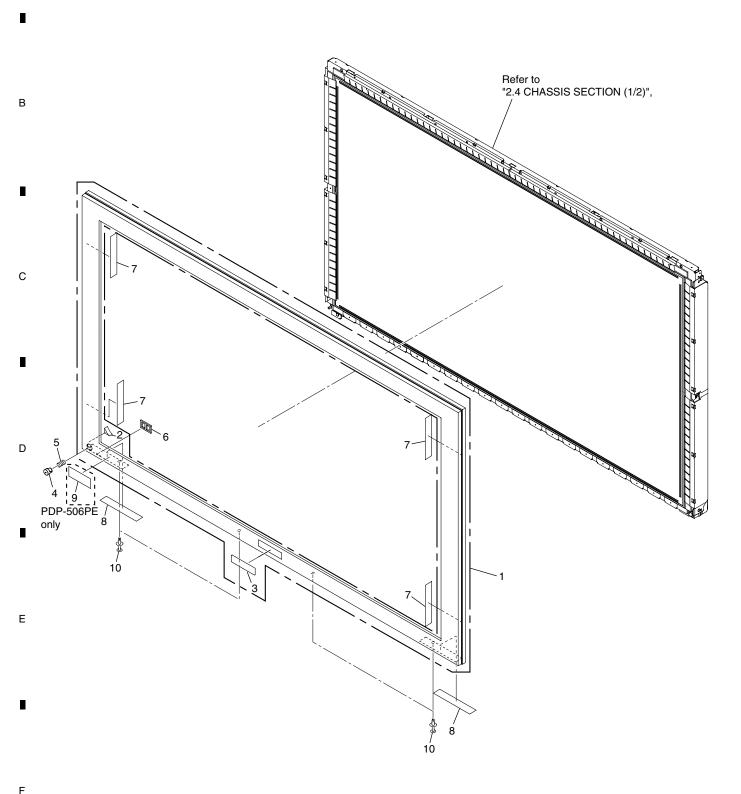
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PDP-506PE

#### (1) FRONT SECTION PARTS LIST

Mark N	o. <u>Description</u>	Part No.	
	Front Case Assy (506PE)	AMB2861	
	2 Corner Cushion	AEB1416	
	Pioneer Name Plate	AAM1098	
	Power Button	AAD4133	
	5 Coil Spring	ABH1120	
	Blind Cushion	AEB1415	
	7 Insulation Sheet A	AED1283	
	Insulation Sheet B	AED1284	
	Power Display Label (506)	See Contrast table (2)	
-	0 Screw Rivet	AEC1877	

#### (2) CONTRAST TABLE

PDP-506PE/WYVI and PDP-506PU/KUCXC are constructed the same except for the following:

Mark	Mark No. Symbol and Description		PDP-506PE/WYVI	PDP-506PU/KUCXC	
	9	Power Display Label (506)	AAX3217	Not used	

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Mark	No.	<b>Description</b>	Part No.			
	1	HD LED Assy	AWW1029			
	2	HD IR Assy	AWW1030			
<u> </u>	3	Power Switch (S1)	ASG1092			
	4	Housing Wire (50)(J103)	ADX3112			
	5	Front Chassis VL (50)	AMA1014			
	6	Front Chassis VR (50)	AMA1015			
	7	Sub Frame L Assy (506)	ANA1860			
	8	Sub Frame R Assy (506)	ANA1861			
	9	Front Chassis H Assy (50)	ANA1883			
	10	Panel Holder H (50)	ANG2769			
	11	Panel Holder V1 (50)	ANG2770			
	12	Panel Holder V2 (50)	ANG2771			
	13	Cushion	AEB1424			
	14	Wire Saddle	AEC1745			
	15	••••				
	16	Nyron Rivet	AEC1671			
	17	Screw	ABZ30P080FTC			
	18	Screw	AMZ30P060FTB			
	19	Screw	APZ30P080FTB			
	20	Screw	BBZ30P060FTC			
	21	Screw	BPZ30P080FTB			
	22	Screw	TBZ40P080FTB			
	23	Screw	VBB30P080FNI			

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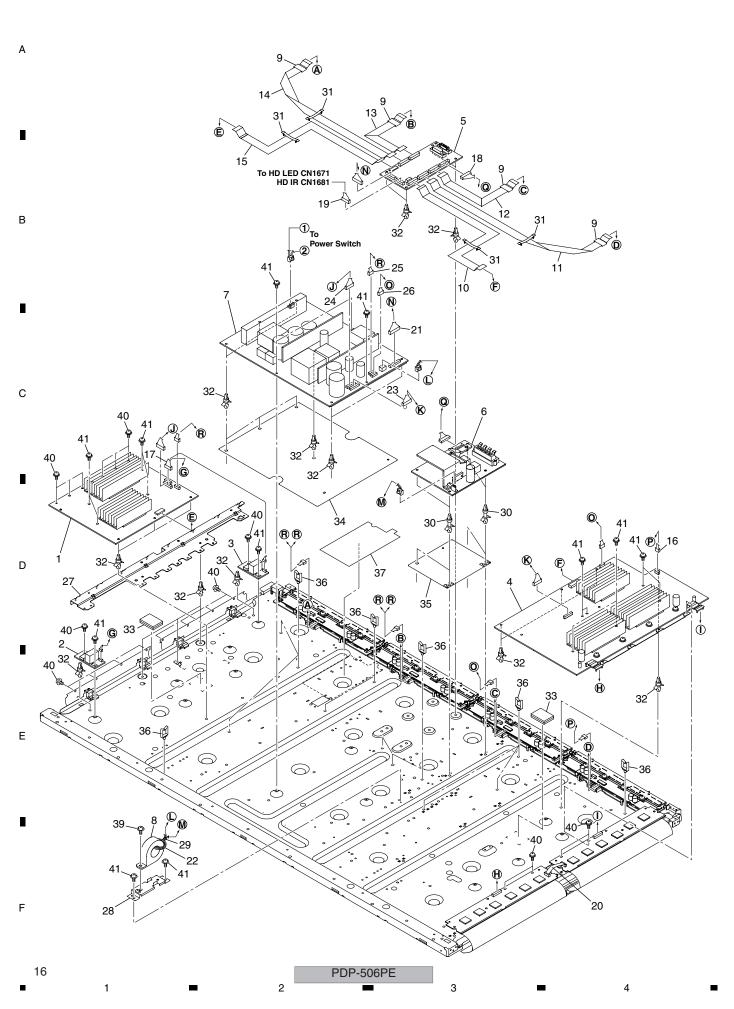
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PDP-506PE



### (1) CHASSIS SECTION (2/2) PARTS LIST

Mark No.	<u>Description</u>	Part No.	Mark No.	<u>Description</u>	Part No.	
1	50 X DRIVE Assy	See Contrast table (2)	21	14P Housing Wire (J104)	ADX3158	
2	SUS CLAMP 1 Assy	AWW1022	22	3P Housing Wire (J105)	ADX3159	Α
3	SUS CLAMP 2 Assy	AWW1023	23	9P Housing Wire (J101)	ADX3186	
4	50 Y DRIVE Assy	See Contrast table (2)	24	8P Housing Wire (J102)	ADX3187	
5	HD DIGITAL Assy	AWW1028	25	5P Housing Wire (J106)	ADX3188	
6	HD AUDIO Assy	AWV2203	26	6P Housing Wire (J107)	ADX3189	_
<u> </u>	POWER SUPPLY Unit	AXY1112	27	Conductive Plate XA	ANG2776	
8	Ring Core with Case	ATX1042	28	FC Stay	ANG2815	
9	Ferrite Core	ATX1048	29	Binder	AEC-093	
10	Flexible Cable (J201)	ADD1293	NSP 30	PCB Spacer	AEC1188	
11	Flexible Cable (J202)	ADD1294	31	Flat Clamp	AEC1879	В
12	Flexible Cable (J203)	ADD1295	32	PCB Spacer	AEC1941	
13	Flexible Cable (J204)	ADD1296	33	Drive Silicone Sheet	AEH1095	
14	Flexible Cable (J205)	ADD1297	34	Power Supply Insulation Sheet	AMR3447	
15	Flexible Cable (J206)	ADD1298	35	Audio Insulation Sheet	AMR3469	
16	4P Housing Wire (J108)	ADX3117	36	Wire Saddle	AEC1745	
17	6P Housing Wire (J109)	See Contrast table (2)	NSP 37	Address Sheet	AMR3491	
18	12P Housing Wire (J110)	See Contrast table (2)	38	••••		
19	6P Housing Wire (J111)	ADX3120	39	Screw	ABA1324	
20	3P Housing Wire (J113)	See Contrast table (2)	40	Screw	PMB30P060FTC	С
			41	Screw	VBB30P080FNI	•

#### (2) CONTRAST TABLE

PDP-506PE/WYVI and PDP-506PU/KUCXC are constructed the same except for the following:

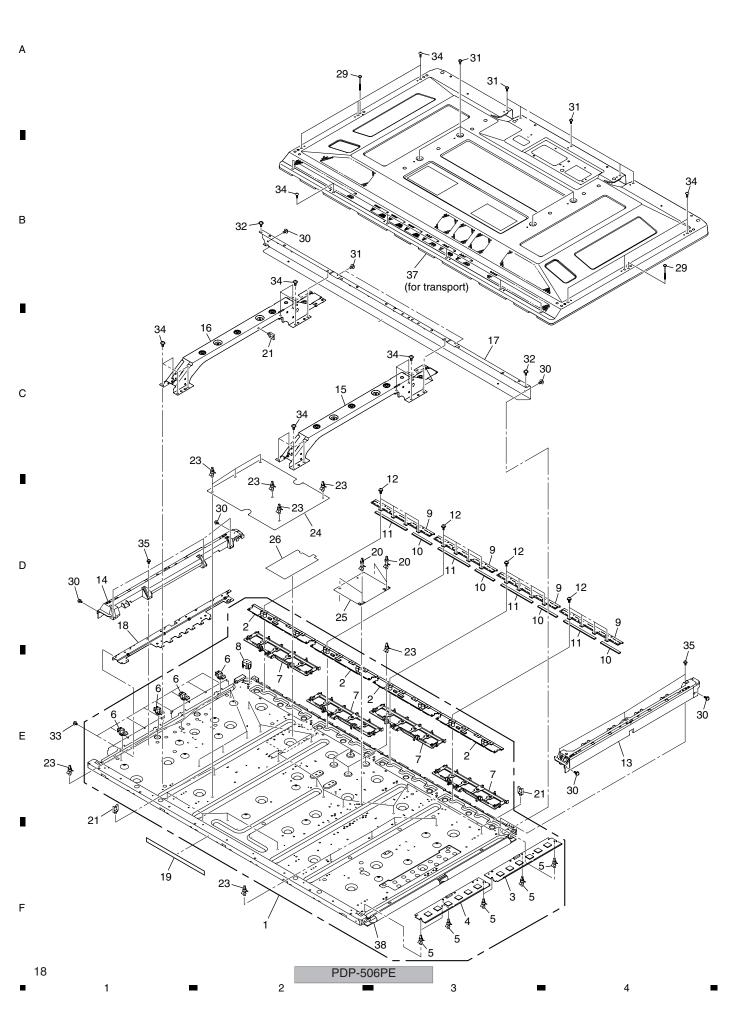
			•	ŭ	
Mark	No.	Symbol and Description	PDP-506PE/WYVI	PDP-506PU/KUCXC	D
	1	50 X DRIVE Assy	AWW1075	AWW1020 or AWW1075	
	4	50 Y DRIVE Assy	AWV2258	AWV2210 or AWV2258	
	17	6P Housing Wire (J109)	ADX3118	ADX3132	
	18	12P Housing Wire (J110)	ADX3119	ADX3133	
	20	3P Housing Wire (J113)	ADX3122	ADX3136	

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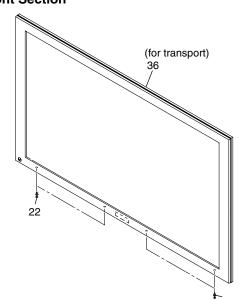
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PDP-506PE

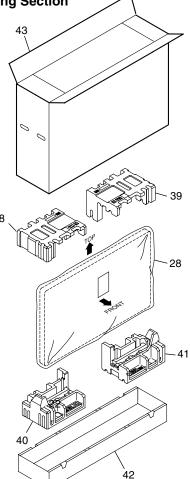
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• Front Section



#### Packing Section



#### Note when replacing with the PDP Service Assy 506P

The Power Switch (S1), HD LED Assy, and HD IR Assy are not included in the PDP Service Assy 506P. Before replacement with the PDP Service Assy 506P, the following components of the Service Assy must be temporarily detached to attach the above-mentioned parts (parts from the original unit or newly purchased):

- Front Chassis H Assy (50) (ANA1883)
- Front Chassis VL (50) (AMA1014)
- Front Chassis VR (50) (AMA1015)

#### PDP SERVICE ASSY 506P (AWU1134) PARTS LIST

PDP SERVICE ASSY 506P (AWU1134) PARTS LIST								
Mark No.	<b>Description</b>	Part No.	Mark No.	<u>Description</u>	Part No.			
NSP 1	Panel Chassis (506) Assy	AWU1143	23	PCB Spacer	AEC1941			
NSP 2	50 ADDRESS Assy	AWV2208	24	Power Supply Insulation Sheet	AMR3447			
NSP 3	50 SCAN A Assy	AWW1026	25	Audio Insulation Sheet	AMR3469			
NSP 4	50 SCAN B Assy	AWW1027						
5	PCB Spacer	AEC1944	NSP 26	Address Sheet	AMR3491			
			NSP 27	Chassis Assy (50)	ANA1830			
6	Conductive Plate Holder	AMR3446	28	Protect Sheet	AHG1331			
7	ADDRESS Holder Assy (50)	AMR3454	29	Screw (3 x 40P)	ABA1332			
8	Tube Cover	AMR3445	30	Screw	ABZ30P080FTC			
9	Address Heatsink (50)	ANH1635						
10	Address Silicone A	AEH1093	31	Screw	AMZ30P060FTB			
			32	Screw	APZ30P080FTB			
11	Address Silicone B	AEH1094	33	Screw	PMB30P060FTC			
12	Screw	BBB30P120FNI	34	Screw	TBZ40P080FTB			
13	Front Chassis VL (50)	AMA1014	35	Screw	VBB30P080FNI			
14	Front Chassis VR (50)	AMA1015						
15	Sub Frame L Assy (506)	ANA1860	NSP 36	Front Case Assy (506 serivice)	AMB2889			
				(for transport)				
16	Sub Frame R Assy (506)	ANA1861	NSP 37	Rear Case (506)	ANE1639			
17	Front Chassis H Assy (50)	ANA1883		(for transport)				
18	Conductive Plate XA	ANG2776	38	Pad (50T-L)	AHA2427			
19	Cushion	AEB1424	39	Pad (50T-R)	AHA2428			
NSP 20	PCB Spacer	AEC1188	40	Pad (50B-L)	AHA2429			
21	Wire Saddle	AEC1745	41	Pad (50B-R)	AHA2430			
22	Screw Rivet	AEC1877	42	Under Carton	AHA3344			
			43	Upper Carton (506 S.V.C)	AHA3430			

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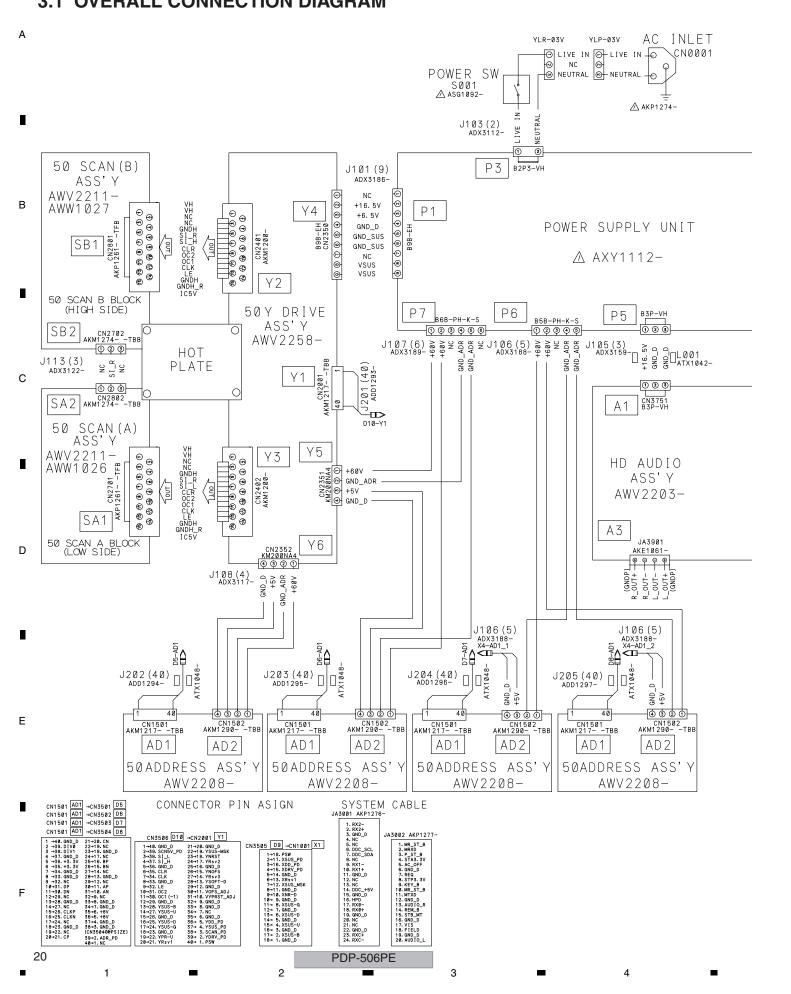
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PDP-506PE

# 3. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM 3.1 OVERALL CONNECTION DIAGRAM

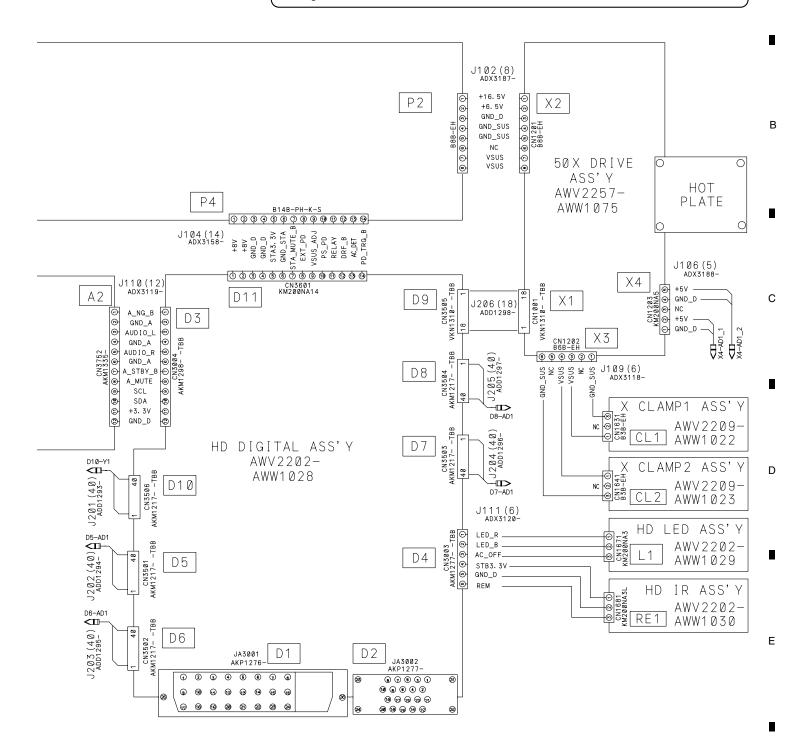


 When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST".

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• The <u>Mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.</u>



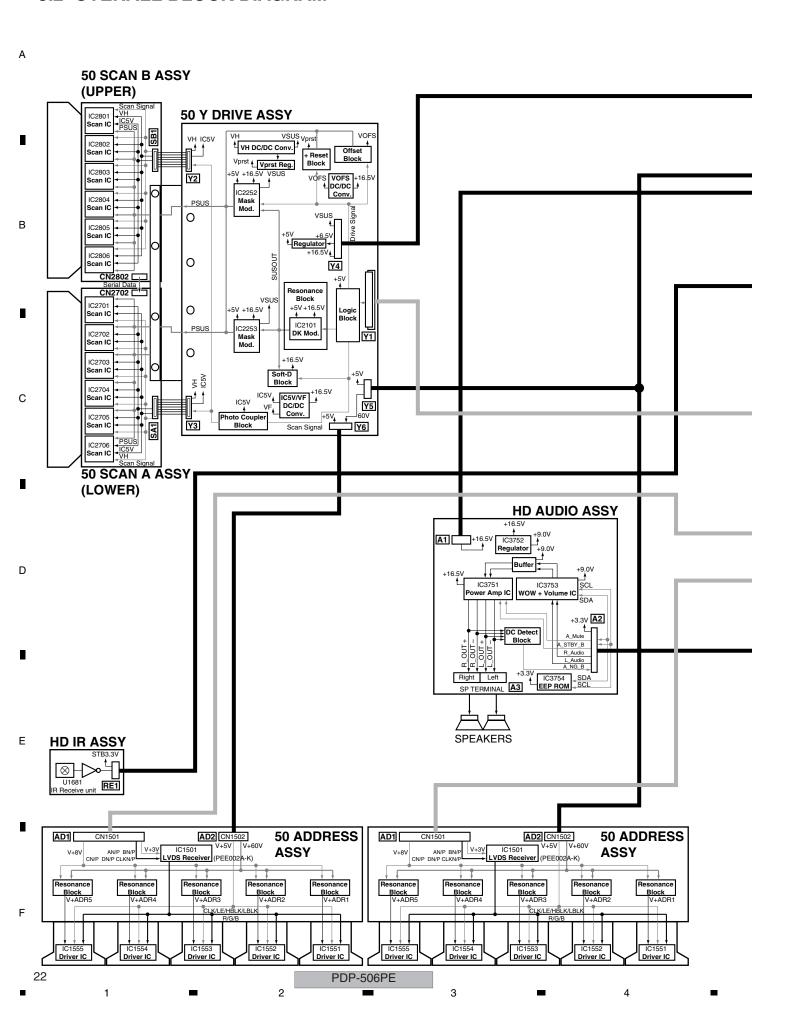
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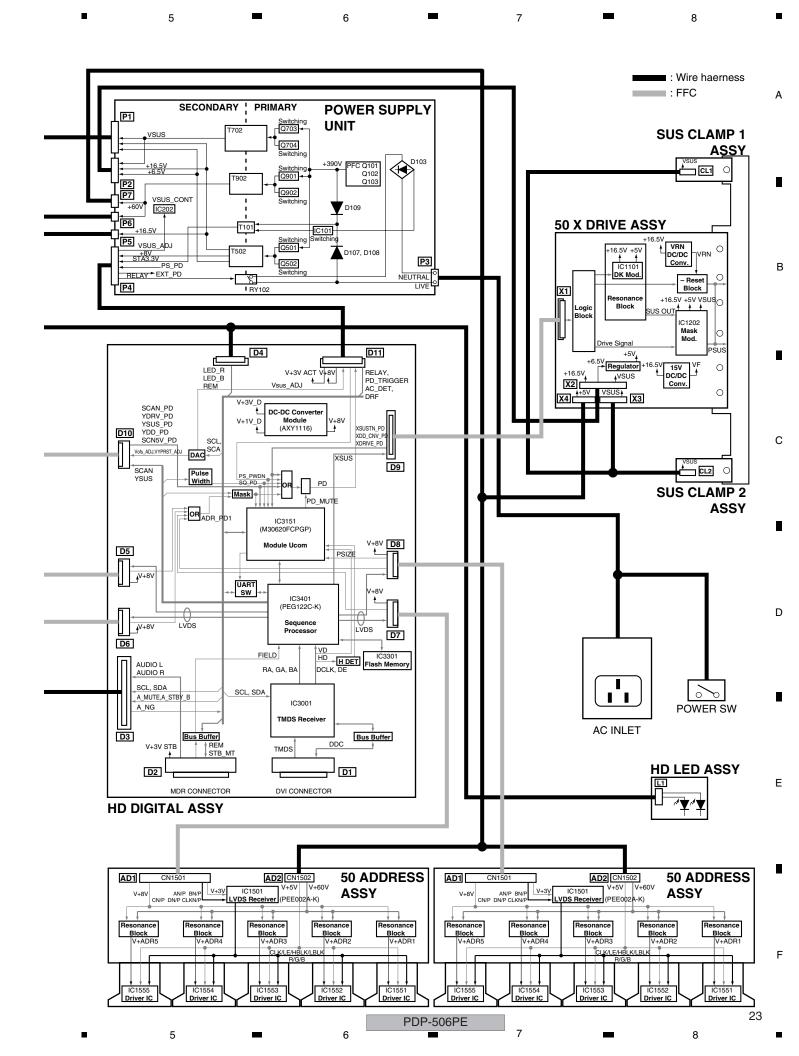
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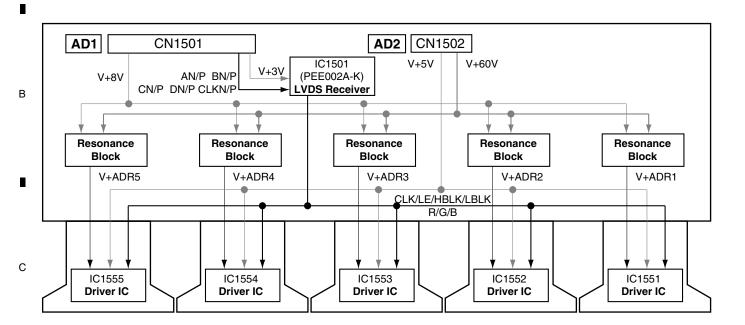
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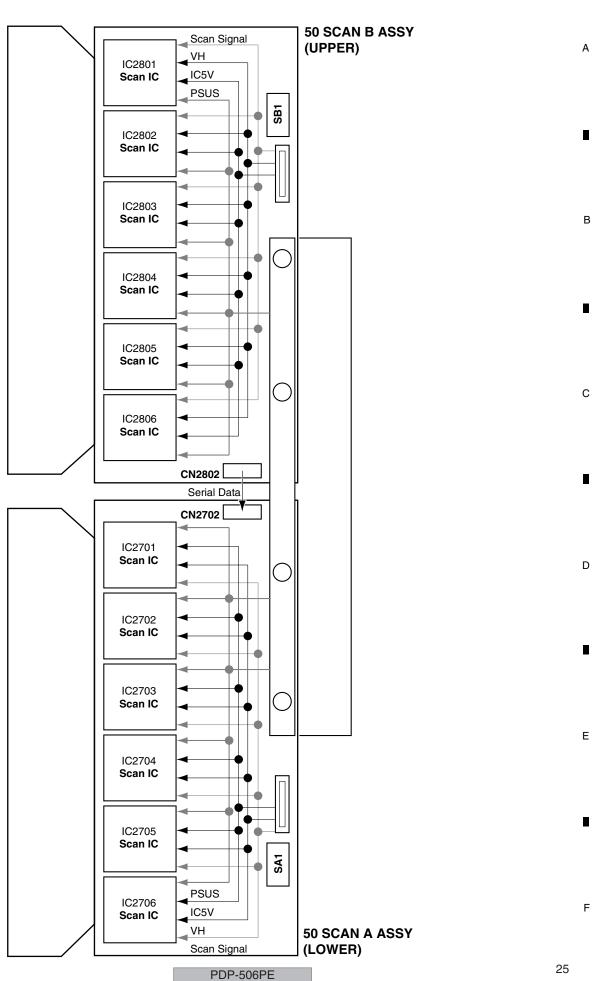
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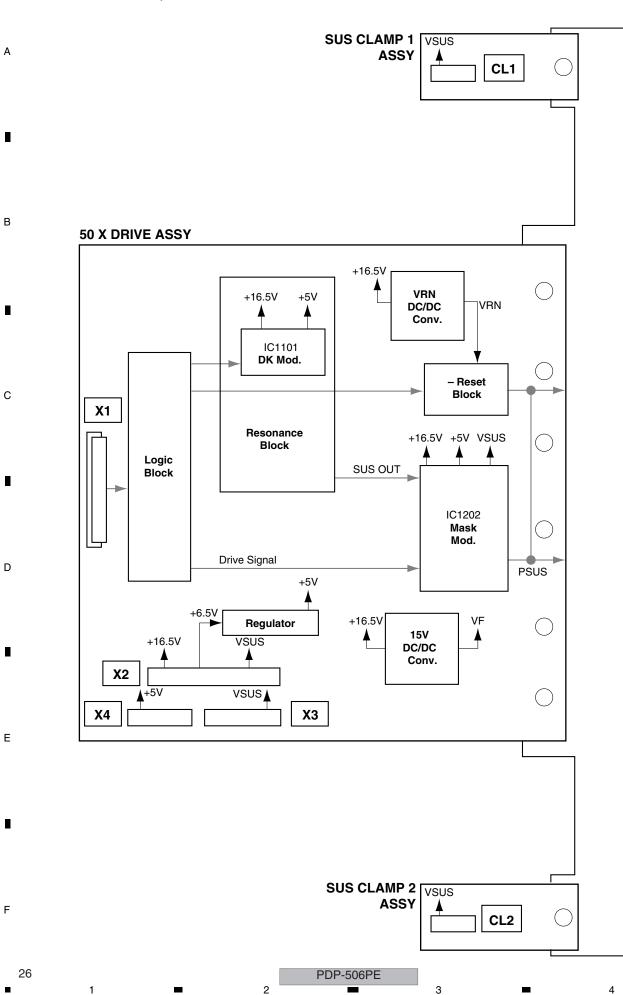
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PDP-506PE

### 3.4 50 SCAN A and B ASSYS



### 3.5 50 X DRIVE, SUS CLAMP 1 and SUS CLAMP 2 ASSYS



PDP-506PE

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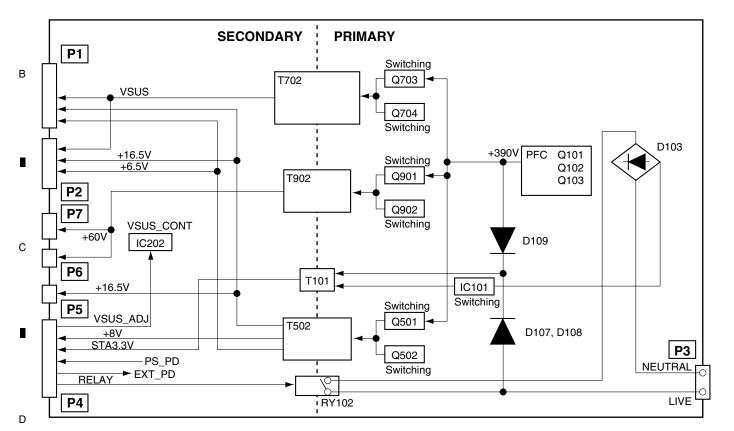
PDP-506PE

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**SPEAKERS** 



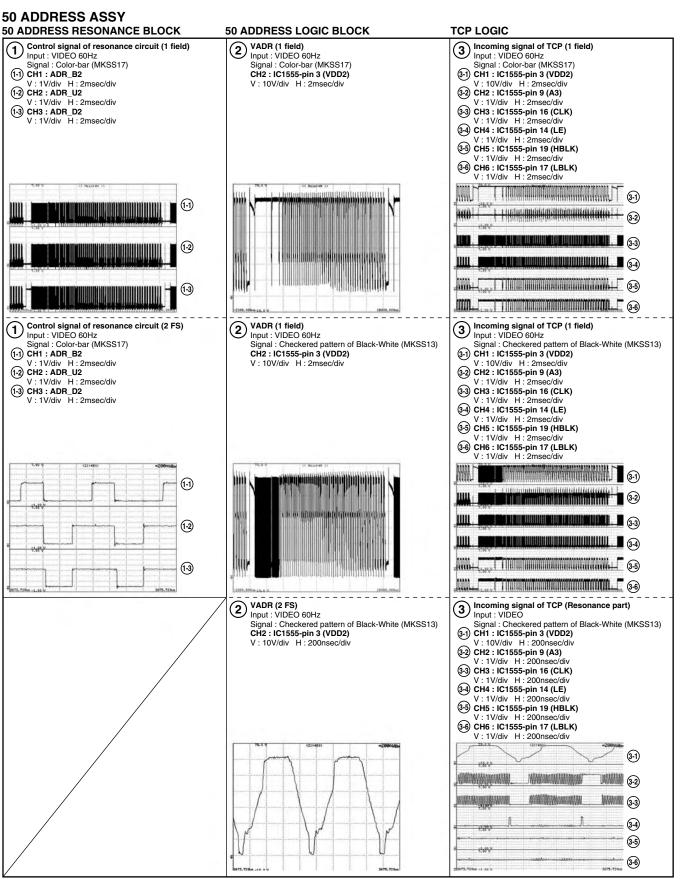
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PDP-506PE

Note: The encircled numbers denote measuring point in the schematic diagram. Refer to service manual (ARP3268).



PDP-506PE

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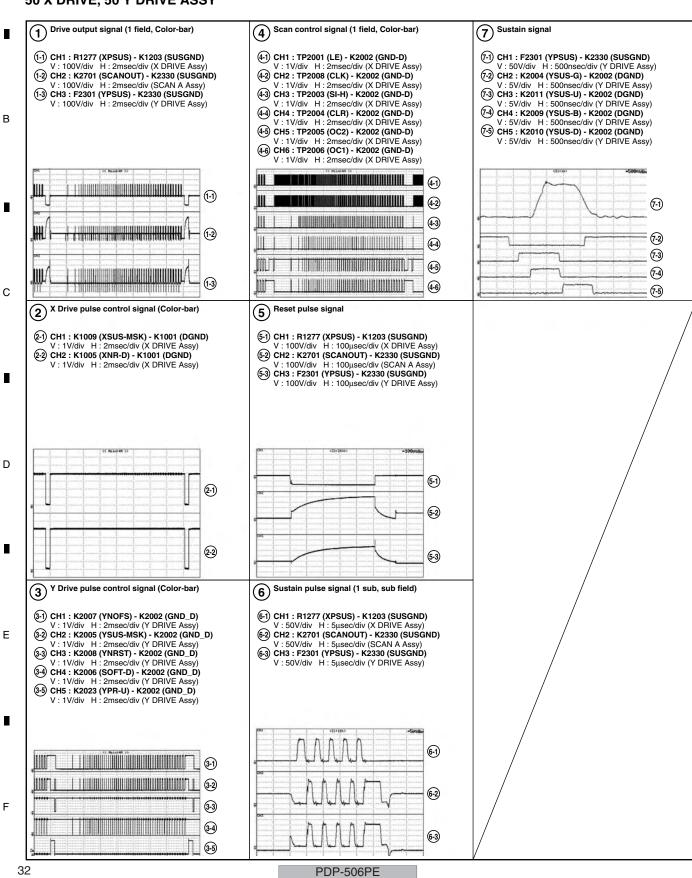
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#### **50 X DRIVE, 50 Y DRIVE ASSY**



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## 5. PCB PARTS LIST

NOTES: • Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.

- The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- When ordering resistors, first convert resistance values into code form as shown in the following examples.

  Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

 $5.62k \Omega \rightarrow 562 \times 10^{-1} \rightarrow 5621 \dots RN1/4PC[5][6][2][1]F$ 

### ■ LIST OF WHOLE PCB ASSEMBLIES

Mark	Symbol and Description	PDP-506PE /WYVI	PDP-506PU /KUCXC
NSP	1PANEL CHASSIS (506) ASSY	AWU1143	AWU1143
NSP	250 ADDRESS ASSY	AWV2208	AWV2208
NSP	250 SCAN ASSY	AWV2211	AWV2211
NSP	350 SCAN A ASSY	AWW1026	AWW1026
NSP	350 SCAN B ASSY	AWW1027	AWW1027
NSP	150 X DRIVE ASSY	AWV2257	AWV2209 or AWV2257
	250 X DRIVE ASSY	AWW1075	AWW1020 or AWW1075
	2SUS CLAMP 1 ASSY	AWW1022	AWW1022
	2SUS CLAMP 2 ASSY	AWW1023	AWW1023
	150 Y DRIVE ASSY	AWV2258	AWV2210 or AWV2258
NSP	1HD DIGITAL ASSY	AWV2202	AWV2202
	2HD DIGITAL ASSY	AWW1028	AWW1028
	2HD LED ASSY	AWW1029	AWW1029
	2HD IR ASSY	AWW1030	AWW1030
	1HD AUDIO ASSY	AWV2203	AWV2203
<u> </u>	1POWER SUPPLY UNIT	AXY1112	AXY1112

### **50 X DRIVE ASSY**

AWW1075 and AWW1020 are constructed the same except for the following:

Mark	Symbol and Description	AWW1075	AWW1020
	IC1101	AXF1142	AXF1155
	C1101	ACG1112 (0.22U/250V)	ACG1088 (0.1U/250V)
	C1106-C1110	Not used	ACE1178
	C1112, C1113 (0.22U/250V)	ACG1112	Not used
	C1161-C1164, C1166	ACE1168	Not used
	C1297, C1298 (3300p/630V)	ACG1129	Not used

### **50 Y DRIVE ASSY**

AWV2258 and AWV2210 are constructed the same except for the following:

Mark	Symbol and Description	AWV2258	AWV2210
	IC2101	AXF1142	AXF1155
	C2103	ACG1112 (0.22U/250V)	ACG1088 (0.1U/250V)
	C2107, C2108 (0.22U/250V)	ACG1112	Not used
	C2131-C2134, C2136	ACE1168	ACE1178
	C2271	ACG1124 (0.1U/100V)	ACG1118 (0.33U/100V)
	C2272 (0.1U/100V)	ACG1124	Not used

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# 1 2 3 3 E PCB PARTS LIST FOR PDP-506PE/WYVI UNLESS OTHER WISE NOTED

	PCB PARTS LIST FOR P	DP-506PE/WYVIU	INLESS OTHER MISE NOTED	
	Mark No. Description	Part No.	Mark No. Description	Part No.
	50 ADDRESS ASSY		<u>CAPACITORS</u>	
Α	[50 ADR LOGIC BLOCK]		C2701,C2711,C2721 (0.1U/250V)	ACG1088
-			C2731,C2741,C2751 (0.1U/250V)	ACG1088
	SEMICONDUCTORS		C2710,C2720,C2730,C2740,C2750	CCSRCH181J50
	IC1501	PEE002A	C2760	CCSRCH181J50
			C2708,C2709,C2718,C2719	CCSRCH331J50
	COILS AND FILTERS			
	L1504 CHIP SOLID INDUCTOR	QTL1013	C2728,C2729,C2738,C2739	CCSRCH331J50
			C2748,C2749,C2758,C2759	CCSRCH331J50
	<u>CAPACITORS</u>		C2705-C2707,C2715-C2717	CCSRCH390J50
	C1501,C1502	CKSRYB105K6R3	C2725-C2727,C2735-C2737	CCSRCH390J50
	C1509,C1510	CKSSYB102K50	C2745-C2747,C2755-C2757	CCSRCH390J50
	C1503-C1507,C1551-C1555	CKSSYF104Z16		01/07/77 1071/070
_			C2703,C2713,C2723,C2733,C2743	CKSRYB105K6R3
В	<u>RESISTORS</u>		C2753	CKSRYB105K6R3
	R1530,R1531	RS1/16S0R0J	DECICTORS	
	R1505-R1509	RS1/16SS1000F	RESISTORS	
	Other Resistors	RS1/16SS###J	R2705,R2710,R2713,R2716,R2719	RAB4C221J
			R2722	RAB4C221J
	<u>OTHERS</u>		Other Resistors	RS1/16S###J
	CN1501 40P CONNECTOR	AKM1217	OTHERO	
	CN1502 PH CONNECTOR 4P	AKM1290	<u>OTHERS</u>	
			CN2702 PH CONNECTOR 3P	AKM1274
			CN2701 13P BRIDGE CONNECTOR	AKP1261
	[50 ADR RESONANCE BLOCK]			
	<u>SEMICONDUCTORS</u>			
С	IC1601,IC1602	TND307TD	50 SCAN B ASSY	
	Q1613	2SA1163		
	Q1614-Q1616	HAT1110R	<u>SEMICONDUCTORS</u>	
	Q1606,Q1608,Q1611	QSZ2	IC2801-IC2806	AN16025A
	Q1612	RN1901	IC2807	TC7SH08FUS1
			D2801-D2807	1SS355
	Q1601-Q1605	SP8M41		
_	D1612	1SS302	<u>CAPACITORS</u>	
	D1625-D1629	1SS355	C2801,C2811,C2821 (0.1U/250V)	ACG1088
	D1631-D1650	EP05FA20	C2831,C2841,C2851 (0.1U/250V)	ACG1088
	D1601,D1605,D1607,D1610,D1613	UDZS15(B)	C2810,C2820,C2830,C2840,C2850	CCSRCH181J50
	D1616,D1620,D1622	UDZS15(B)	C2860	CCSRCH181J50
D	D1010,D1020,D1022	0D2313(B)	C2808,C2809,C2818,C2819	CCSRCH331J50
_	COILS AND FILTERS		C2828,C2829,C2838,C2839	CCSRCH331J50
	L1601-L1605 SMD COIL	ATH1163	C2848,C2849,C2858,C2859	CCSRCH331J50
	LIGHT LIGHT GIVE GOIL	ATTTOO	C2805-C2807,C2815-C2817	CCSRCH390J50
	CAPACITORS		C2825-C2827,C2835-C2837	CCSRCH390J50
	C1609 (0.1U/100V)	ACG1098	C2845-C2847,C2855-C2857	CCSRCH390J50
	C1601,C1606,C1610 (0.068U/100V)	ACG1123		
-	C1611,C1614 (0.068U/100V)	ACG1123	C2803,C2813,C2823,C2833,C2843	CKSRYB105K6R3
	C1602-C1605 (56UF/80V)	ACH1405	C2853,C2861	CKSRYB105K6R3
	C1613	CKSRYB104K25		
			<u>RESISTORS</u>	
	C1619	CKSYB105K16	R2803,R2808,R2811,R2814,R2817	RAB4C221J
Е			R2820	RAB4C221J
_	<u>RESISTORS</u>		Other Resistors	RS1/16S###J
	R1606,R1611,R1613,R1621	RS1/16SS###J		
	Other Resistors	RS1/16S###J	<u>OTHERS</u>	
			CN2802 PH CONNECTOR 3P	AKM1274
			CN2801 13P BRIDGE CONNECTOR	AKP1261
	50 00 AN A 400Y			
_	50 SCAN A ASSY			
	<u>SEMICONDUCTORS</u>		50 X DRIVE ASSY	
	IC2701-IC2706	AN16025A		
	D2701-D2707	1SS355	[50X LOGIC BLOCK]	
			<u>SEMICONDUCTORS</u>	
F			IC1001	TC74ACT541FT
•			IC1002	TC74VHC00FTS1

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<b>-</b>	5	6			7		8	
Mark No.	<b>Description</b>	Part No.	<u>M</u>	ark No.		<b>Description</b>	Part No.	
CAPACITORS	3		C	CAPACITO	RS			
C1003	_	CEHAT470M16	_	C1214-C12			ACE1178	
C1001,C1002		CKSRYB104K16		C1212,C12	13		ACH1423	
				C1231			CEHAT101M10	Α
<u>RESISTORS</u>				C1206			CEHAT101M25	
R1001,R1003		RAB4C470J		C1283			CEHAT2R2M2E	
R1008,R1009		RAB4C472J		C1208			CEHAT470M16	
Other Resistors	5	RS1/16S###J		C1222,C127	72		CEHAT470M25	
OTHERS				C1221	-		CKSRYB105K6R3	_
	FFC CONNECTOR	VKN1310		C1204,C120	07,C1	223,C1251,C1253	CKSRYF104Z50	
CIVIOUT TOLL	TTO CONNECTOR	VICIO		C1273			CKSRYF104Z50	
				04000			O1(O)(D4051(O5	
[50X RESONA	ANCE BLOCK]			C1220			CKSYB105K25	
SEMICONDU				RESISTOR	9			
IC1101		AXF1142		R1204	<u></u>		ACN1166	В
IC1141		BA10393F		R1204			ACN1168	
Q1141		2SC4116		R1276,R127	77		RS3LMF470J	
D1101-D1105		D1FL40		Other Resis	tors		RS1/16S###J	
COILS AND F	III TEDO							
L1103,L1104 (		ATH1119	<u>C</u>	<u>THERS</u>				_
L1101,L1102 (		ATH1187				GROUND PLATE	ANK-142	
L1105,L1106 C		ATH1187		KN1208-KN CN1202 6F		GROUND PLATE	ANK-142	
•				CN1202 6F			B6B-EH B8B-EH	
<b>CAPACITORS</b>	<u>S</u>			0111201 01	101	1001	DOD LIT	
	C1116 (3.3U/250V)	ACE1168						
	C1113 (0.22U/250V)	ACG1112	[ 5	50X D-D C	ON I	BLOCK]		С
C1121 (470p/63	30V)	ACG1126		EMICONE				Ū
C1105 C1141,C1142,0	C1144 C1145	CCG1186 CKSRYB104K16	_	IC1321			PS2701A-1(L)	
01141,01142,0	31144,01143	CRONTD104R10		IC1326			TA76431FR	
C1102,C1146		CKSRYB105K6R3		Q1324			2SA1037K	
C1103		CKSYB105K25		Q1302	00		2SC4081	
				Q1301,Q13	23		2SD1898	
<u>RESISTORS</u>				Q1321,Q13	25.Q1	351	HN1C01FU	
R1101		ACN1168		D1303,D132			1SS301	
R1142,R1146		RS1/10S1003F		D1304,D130	07,D1	325,D1328	1SS355	
R1122,R1123 R1148,R1150		RS1/10S104J RS1/16S5601F		D1301,D130	02,D1	326,D1327	CRH01	
R1151,R1155		RS1/16S6801F		D1321			D1FK60	D
, , , , , , , , , , , , , , , , , , , ,				D1329,D133	30		UDZS4R7(B)	D
R1106,R1121		RS2MMF100J		D1329,D130		331	UDZS5R1(B)	
Other Resistors	5	RS1/16S###J		2.000,2.00	_0,		02200:::(2)	
			<u>C</u>	COILS AND	D FII	<u>TERS</u>		
[50X SUS BLO	CK1			∑T1301 SWI			ATK1159	
SEMICONDU			<u> </u>	<u>N</u> T1321 SWI	TCHI	NG TRANS.	ATK1160	
IC1202	<u> </u>	AXF1140	_	\ A DA O!TO	D.			
IC1201		MM1565AF	<u>C</u>	APACITO	<u>KS</u>		A O L 14 A O O	
IC1252		PS9117		C1325 C1326			ACH1428 CEHAT100M50	
IC1251		TND301S		C1302,C132	21		CEHAT101M25	
IC1271		TND307TD		C1301,C130		323	CKSRYB103K50	Е
01051		00004401/		C1304,C130	06,C1	327	CKSRYB104K16	_
Q1251 Q1272		2SC2412K 2SK3325-Z						
D1281		1SS302		C1307,C132	24		CKSYB105K25	
D1201		1SS355	-	COCTOR				
D1252		CRH01	<u>H</u>	RESISTOR	5		DAD404701	
				R1337 R1321,R132	22 D1	326 B1330	RAB4C472J RS1/10S224J	
D1282		UDZS16(B)		VR1321	,,,,,,	020,111000	CCP1392	
D1251		UDZS5R6(B)		Other Resis	tors		RS1/16S###J	
COILS AND F	II TERS							
L1204,L1211		ATH1186						
F1201 INDUC		CTF1449						F
L1201,L1205,L		LFEA100J						Г

PDP-506PE

	1 -	2	3	4
	Mark No. Description	Part No.	Mark No. Description	Part No.
	SUS CLAMP 1 ASSY		C2141,C2143,C2144 C2102	CKSSYB104K10
	<u>SEMICONDUCTORS</u>	DECOLOGIA	G2102	CK31B103K23
Α	D1631	DF20L60U	RESISTORS	
	CAPACITORS		R2101 R2142,R2143	ACN1174 RS1/10S1003F
	C1632	ACE1179	R2142,R2143 R2103,R2107	RS1/10S1003F RS1/10S104J
	OTHERS		R2146,R2149	RS1/16S5601F
_	KN1632 GROUND PLATE	ANK-142	R2147,R2151	RS1/16S6801F
	CN1631 3P TOP POST	B3B-EH	R2102	RS2MMF100J
	KN1631 WRAPPING TERMINAL	VNF1084	R2108	RS3LMF100J
			Other Resistors	RS1/16S###J
	SUS CLAMP 2 ASSY		reavious pricord	
В	SEMICONDUCTORS		[50Y SUS BLOCK] SEMICONDUCTORS	
	D1641	DF20L60U	IC2252,IC2253	AXF1141
	2.011	51 202000	IC2350	MM1565AF
	CAPACITORS		IC2250	PS9117
	C1642	ACE1179	IC2231,IC2251 IC2203,IC2221	TND301S TND307TD
	OTHERS		•	
	KN1642 GROUND PLATE	ANK-142	Q2202 Q2250	2SA2142 2SC4081
	CN1641 3P TOP POST KN1641 WRAPPING TERMINAL	B3B-EH VNF1084	Q2290	2SK3050
	NIVIO41 WHALLING LEHWINAL	VIVI 1004	Q2221	2SK3325-Z
С			Q2280,Q2281	2SK3399
C	50 Y DRIVE ASSY		D2233	1SS301
	[50Y LOGIC BLOCK]		D2213 D2203,D2212,D2351	1SS302 1SS355
	SEMICONDUCTORS		D2203,D2212,D2331 D2202,D2204,D2205,D2234	CRH01
	IC2002	TC74ACT540FT	D2251,D2252,D2272	CRH01
	IC2001,IC2004	TC74ACT541FT	D2211	D1FK60
	IC2003,IC2005	TC74VHC08FTS1	D2232,D2271	UDZS16(B)
	CAPACITORS		D2250	UDZS5R6(B)
	C2003	CEHAT470M16	COILS AND FILTERS	
	C2001,C2002,C2004-C2006	CKSSYB104K10	L2353 INDUCTOR	ATH1186
D	<u>RESISTORS</u>		F2301-F2320 FERRITE BEAD F2352 INDUCTOR	ATX1055
	R2003,R2006	RAB4C101J	L2350,L2351,L2354	CTF1449 LFEA100J
	R2001,R2002,R2017,R2021 R2004,R2005,R2019,R2020	RAB4C470J RAB4C472J		
	Other Resistors	RS1/16S###J	CAPACITORS	1051170
	OTHERS		C2330,C2335,C2341,C2342 C2231 (0.33U/100V)	ACE1178 ACG1118
_	CN2001 40P CONNECTOR	AKM1217	C2271,C2272 (0.1U/100V)	ACG1124
			C2336,C2337 C2270	ACH1423 ACH1426
	[50Y RESONANCE BLOCK]		OZZ70	A0111420
	SEMICONDUCTORS		C2226 C2207	ACH1427
Ε	IC2101	AXF1142	C2355,C2369	CCSRCH102J50 CEHAT101M10
	IC2141	BA10393F	C2357	CEHAT470M16
	Q2141 D2101-D2105	2SC4081 D1FL40	C2208,C2221,C2339,C2364	CEHAT470M25
			C2356	CKSRYB104K16
	COILS AND FILTERS	ATI 14440	C2353,C2358,C2359	CKSRYB105K6R3
	L2103,L2104 CHOKE COIL L2101,L2102 CHOKE COIL	ATH1119 ATH1187	C2363 C2209,C2222,C2230,C2252	CKSRYB473K16 CKSRYF104Z50
	L2105,L2106 CHOKE COIL	ATH1187	C2250	CKSSYB104K10
	CAPACITORS		C2354,C2360	CKSYB105K25
	C2131-C2134,C2136 (3.3U/250V)	ACE1168	,	
F	C2103,C2107,C2108 (0.22U/250V)	ACG1112		
	C2104 (470p/630V) C2106	ACG1126 CCG1186		
	C2101,C2145	CKSRYB105K6R3		
	36		DE	
	30 1 ■	PDP-506I	<u>7</u> E	4
_	· —	- <del>-</del>	<del>-</del>	•

<b>=</b> 5	; <b>=</b>	6	<b>-</b> 7	<b>=</b> 8	
Mark No.	Description	Part No.	Mark No. Description	on Part No.	
RESISTORS			CAPACITORS		
R2352		ACN1166	C2531	ACE1177	
R2304		ACN1174	C2516	ACH1360	
R2360,R2362		ACN1178	C2532	ACH1425	Α
R2277-R2279,R	R2281	ACN1241	C2513	ACH1428	
R2210,R2211		RS1/10S151J	C2520	CEHAT101M16	
R2290		RS1MMF331J	C2515	CEHAT101M25	
R2222,R2224		RS2MMF5R6J	C2528	CEHAT221M16	
R2203		RS3LMF821J	C2514,C2525,C2534	CKSRYB104K16	
Other Resistors		RS1/16S###J	C2521,C2533,C2535	CKSRYB104K25	
<u>OTHERS</u>			<u>RESISTORS</u>		
,	2 GROUND PLATE	ANK-142	R2553	RAB4C472J	
KN2354 GROU	7 GROUND PLATE	ANK-142 ANK-142	R2558 R2533,R2556	RS1/10S0R0J RS1/10S104J	
,	3 GROUND PLATE	ANK-142 ANK-142	R2533,R2536 R2534,R2535,R2541	RS1/10S2203F	В
	2 KR CONNECTOR	B4B-PH-K	R2548	RS1/16S1003F	
CN2350 9PTC	OP POST	B9B-EH	R2550	RS1/16S1802F	
			R2549,R2557	RS1/16S4702F	
			R2542,R2545	RS1/16S5601F	
[50Y SCAN BL	_		VR2503 VR2531	CCP1390	
SEMICONDUC			VH2531	CCP1392	
IC2403,IC2405,	IC2406,IC2408	PS9117	Other Resistors	RS1/16S###J	
IC2401 IC2402,IC2407		PS9851-2(P) TC74ACT540FT			
102402,102407		1074AC1540F1			
COILS AND F	ILTERS		[50Y D-D CON BLOCK]		С
L2401-L2403		LFEA100J	<u>SEMICONDUCTORS</u>		Ü
			IC2602	BA10358F	
<b>CAPACITORS</b>			IC2601,IC2603,IC2606	PS2701A-1(L)	
C2404,C2411		ACH1413	IC2605,IC2614	TA76431FR	
C2401,C2407,C	2414	CEHAT101M10	Q2610 Q2601,Q2609	2SA1163 2SA1576A	
	2405,C2408-C2410	CKSSYB104K10	Q2601,Q2609	25A1576A	
C2412		CKSSYB104K10	Q2608	2SA2005	
DECICTORS			Q2607	2SC2713	
RESISTORS		DAD400001	Q2612	2SC4081	
R2407,R2421 R2402.R2409		RAB4C220J RS1/10S0R0J	Q2605,Q2606	2SD1898	
Other Resistors		RS1/16S###J	Q2603,Q2604,Q2611	DTC143EUA	
Carlot Floolotoro		1101,10011110	00000 00010 00011	11014 004 511	D
OTHERS			Q2602,Q2613,Q2641 D2611	HN1C01FU 1SS226	
·	BRIDGE CONNECTOR	AKM1200	D2604,D2612	1SS301	
CN2402 15P B	BRIDGE CONNECTOR	AKM1200	D2602,D2613-D2615	1SS355	
			D2601,D2603,D2609,D2618	CRH01	
[[0](](]]	ON DI COIC				
[50Y VH D-D C	-		D2610	D1FL40	_
SEMICONDUC	CTORS		D2617	UDZS15(B) UDZS4R7(B)	
IC2531 IC2502		BA10358F	D2607,D2608 D2605	UDZS5R1(B)	
IC2502		MIP2E3DMC PS2701A-1(L)	D2616	UDZS5R6(B)	
IC2534,IC2535		TA76431FR		( )	
Q2533		2SC2412K	<b>COILS AND FILTERS</b>		Е
			⚠T2602 CONVERTER TRANS.	ATK1156	
Q2531		2SC3425	⚠T2601 SWITCHING TRANS.	ATK1161	
Q2532		2SD2568	0.15.01505		
Q2511		HN1C01FU	CAPACITORS		
D2534 D2522,D2524		1SS355 CRH01	C2608,C2610	CEHAT221M25	
52022,52024		31 11 10 1	C2613 C2606	CEHAT221M25 CEHAT221M6R3	
D2523,D2532		D1FK60	C2607	CKSRYB102K50	
D2533		UDZS33(B)	C2605,C2612,C2614	CKSRYB103K50	
D2536		UDZS4R7(B)	, , , , -		
D2530,D2531		UDZS8R2(B)	C2601,C2604,C2609	CKSRYB104K16	
COUCANDE	II TEDO		C2602,C2615	CKSRYB105K6R3	F
COILS AND F		ATI/4 4 5 0	C2603	CKSRYF104Z50	
<u>↑</u> T2503 CONVE  L2501	HIEH IHANS.	ATK1158 LFEA101J	C2611	CKSSYB104K10	
L2301		LICATUIJ			
			PDP 506PE	37	7
			PDP-506PE		

	Mark No. Descript	ion Part No.	Mark No. Description	Part No.
	<u>RESISTORS</u>		<u>OTHERS</u>	
	R2613	RAB4C472J	CN3003 PH CONNECTOR 6P	AKM1277
	R2641,R2642	RS1/10S224J	CN3004 PH CONNECTOR 12P	AKM1298
Α	R2629	RS1/16S1002F	JA3001 DVI CONNECTOR	AKP1276
	R2625,R2626	RS1/16S1501F	JA3002 MDR CONNECTOR	AKP1277
	R2608,R2612,R2630,R2632,	R2635 RS1/16S4701F		
	R2618	RS1/16S4702F	[MODULE UCOM BLOCK]	
	R2636	RS1/16S5601F	SEMICONDUCTORS	
	R2652	RS1/16S6801F	IC3156	BR24L04FJ-W
	R2627	RS3LMF151J	IC3151	M30620FCPGP-U5C
	VR2601	CCP1390	IC3157	M62334FP
	Other Resistors	RS1/16S###J	IC3158	MM1522XU
	Other nesistors	N31/103###J	IC3155	SN74AHC08PW
В			IC3152,IC3153	SN74AHC541PW
	HD DIGITAL ASSY		IC3160	TC74VHC123AFTS1
			IC3159	TC7W126FU
	<u>OTHERS</u>		Q3151	2SJ461A
	DD CON UNIT	AXY1116	D3156,D3159,D3161-D3163	1SS355
_	REMOTE RECEIVER UNIT	RPM7240-H4	D3151,D3152,D3154,D3155,D3158	DAN202U
	HD DIGITAL ASSY		CAPACITORS .	
			C3151	ACH1357
	[TMDS RX BLOCK]		C3164	CCSSCH101J50
	<b>SEMICONDUCTORS</b>		C3171,C3172,C3180	CKSRYB105K6R3
	IC3002	BA8274F	C3154	CKSSYB102K50
С	IC3001	SII1169CTU	C3152,C3153,C3155-C3158	CKSSYF104Z16
	IC3004	SN74AHC32PW		
	Q3009 Q3007	2SC4081 DTA143EUA	C3160-C3163,C3165,C3166,C3170	CKSSYF104Z16
			RESISTORS	
	Q3004	DTC124EUA	R3160,R3171,R3176	RAB4C101J
	Q3005	DTC143EUA	R3174	RAB4C103J
•	Q3002,Q3006,Q3008	RN1901	Other Resistors	RS1/16S###J
	Q3003	RN2901		
	D3001,D3002	1SS355	<u>OTHERS</u>	
	D3012	DA204U	∴ X3151 CERAMIC RESONATOR	ASS1178
	D3007-D3011	RB751V-40		
D	D3003	UDZS6R8(B)		
D	2000	02200.10(2)	[PANEL FLASH BLOCK]	
	COILS AND FILTERS		<u>SEMICONDUCTORS</u>	
	F3005 CHIP SOLID INDUCT	OR QTL1011	IC3301	MBM29PL160TD75TN
	L3003 CHIP SOLID INDUCT		IC3304	PST3610UR
			IC3302,IC3305	PST3628UR
	CAPACITORS		IC3303	SN74AHC08PW
_	C3030	ACH1357	Q3302	HN1C01FU
	C3034,C3036,C3038,C3040,	C3042 ACH1396	00004	DNI4004
	C3003,C3005,C3009,C3014,	C3019 CCSRCH331J50	Q3301	RN1901
	C3046	CCSRCH470J50	CADACITORS	
	C3044,C3045	CCSSCH101J50	<u>CAPACITORS</u>	0000011470150
Е			C3311 C3317	CCSRCH470J50
_	C3001,C3008,C3011,C3020,		C3304,C3307,C3309	CCSRCH471J50 CKSRYB472K50
	C3025-C3027	CCSSCH820J50	C3305,C3310	CKSSYB102K50
	C3018,C3021,C3023,C3024 C3015-C3017,C3028,C3029	CKSRYF105Z10	C3315	CKSSYB104K10
	C3015-C3017,C3028,C3029	CKSSYF104Z16 C3039 CKSSYF104Z16	00010	0.100121011110
	03031,03032,03003,03037,	55009 CN5511104210	C3301-C3303,C3306,C3308,C3316	CKSSYF104Z16
	C3041,C3043	CKSSYF104Z16		
			RESISTORS	
	<u>RESISTORS</u>		All Resistors	RS1/16S###J
	R3007	RAB4C220J		
	R3008-R3013	RAB4C470J	<u>OTHERS</u>	
	R3018	RAB4C472J	⚠ X3302 CRYSTAL OSCILLATOR	ASS1188
F	R3021	RS1/16S3900F		
	Other Resistors	RS1/16S###J		

PDP-506PE

lark No.	Description	Part No.	Mark No. Description	Part No.	
SQ ASIC BLO	•	<u> </u>	HD IR ASSY	<u> </u>	
EMICONDUC	-				
IC3401	ions	PEG122C	SEMICONDUCTORS		
103401		PEG1220	Q1681	2SC4116 DA204U	
OILS AND FI	ITERS		D1681	DA2040	
F3401,F3402 E		CCG1162	CAPACITORS		
,	HIP SOLID INDUCTO		C1681	CEVW470M6R3	
			C1682	CKSRYB103K50	
<b>APACITORS</b>			C1683	CKSSYB102K50	
C3402,C3419 (1	00UF/6.3V)	ACH1396	C1684	CKSSYF104Z16	
C3425,C3441 (1		ACH1396			
C3414-C3416,C		CKSRYF105Z10	RESISTORS		
C3403-C3410,C3	3412,C3413	CKSSYF104Z16	All Resistors	RS1/16S###J	
C3417,C3418,C3	3420-C3424	CKSSYF104Z16			
	_		<u>OTHERS</u>		
C3439,C3440,C3	3442-C3449	CKSSYF104Z16	CN1681 3P L TYPE PLUG	KM200NA3L	
			V1681 REMOTE RECEIVER UNIT	RPM7240-H4	
<u>ESISTORS</u>					
R3402,R3412		RAB4C101J			
R3405-R3407,R3	3409,R3410	RAB4C220J			
R3416,R3417		RAB4C220J	HD AUDIO ASSY		
R3425 Other Resistors		RS1/16S5601F	OTHERS		
Other Resistors		RS1/16S###J	J3901 1P BOARD IN WIRE	ADX3123	
				· · · ·	
ADDRESS BL	OCK1				
EMICONDUC			[AUDIO AMP BLOCK]		
	ions	DANIOOOLI	SEMICONDUCTORS		
D3501,D3502		DAN202U	IC3754	BR24L02FJ-W	
ADACITODO			IC3751	LA4625	
APACITORS		OKOOND400KE0	IC3752	NJM7809FA	
C3501-C3504		CKSSYB102K50	IC3753	NJW1183L	
ESISTORS			Q3751,Q3754,Q3755,Q3757	2SA1576A	
	2505	DAD40404 I			
R3521,R3522,R3 R3524	3323	RAB4C101J RAB4C222J	Q3756,Q3759	2SC4081	
R3519,R3520		RAB4C472J	Q3758,Q3760	DTC124EUA	
Other Resistors		RS1/16S###J			
0110111000000		1101/100###0	<u>CAPACITORS</u>		
THERS			C3797,C3808,C3812,C3814	CEAT1R0M50	
	4 40P CONNECTOR	AKM1217	C3775,C3777,C3788,C3790,C3791	CEHAT100M50	
CN3506 40P C		AKM1217	C3799	CEHAT100M50	
CN3505		VKN1310	C3761,C3764,C3786,C3798	CEHAT101M16	
			C3766,C3780,C3783-C3785	CEHAT1R0M50	
			C3762	CEHAT220M50	
DIGITAL DD C	ON BLOCK]		C3762 C3752,C3753,C3819,C3820	CEHAT2R2M50	
APACITORS	-		C3759	CEHAT331M16	
C3609		CKSSYF104Z16	C3757	CEHAT471M25	
<del>-</del>			C3755	CEHAT472M25	
ESISTORS					
R3611		RAB4C101J	C3763	CEHATR47M50	
Other Resistors		RS1/16S###J	C3754,C3805	CFTLA103J50	
<del>-</del>			C3767,C3770,C3772-C3774	CFTLA104J50	
			C3781,C3782,C3789,C3792-C3795	CFTLA104J50	
			C3806,C3807,C3813	CFTLA104J50	
D LED ASS	SY		00040	OFTI 4000/50	
EMICONDUC			C3810	CFTLA223J50	
D1671	<u> </u>	SML-311UT	C3778 C3758,C3760,C3796	CFTLA334J50 CKSRYB103K50	
D1672		SML512BC4T	C3769,C3760,C3796	CKSRYB222K50	
- <del>-</del>		- <del></del> -	C3769,C3615 C3779	CKSRYB822K50	
OILS AND FI	LTERS		00.70	ONOTH DOLLING	
	HIP SOLID INDUCTOR	R QTL1011	C3816	CKSRYF104Z16	
				-	
			<u>RESISTORS</u>		
			R3768-R3770,R3782	RD1/2MMF2R2J	
			R3752	RD1/2MMF4R7J	
			Other Resistors	RS1/16S###J	

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Mark No. Description Part No.

OTHERS

CN3752 12P PH CONNECTOR AKM1335
3771 AUDIO HEATSINK ANH1636
CN3751 3P TOP POST (VH) B3P-VH

3772-3775 SCREW VBB30P100FNI KN3751 WRAPPING TERMINAL VNF1084

KN3752 WRAPPING TERMINAL VNF1084

[ST TERMINAL BLOCK]
COILS AND FILTERS

**1 ∆** L3901,L3902 LINE FILTER ATF1206

**CAPACITORS** 

Α

⚠ C3906,C3908,C3914,C3916
 C3903,C3911
 C3904,C3912
 CCSRCH101J50
 CKSRYB332K50
 CKSRYF473Z50

**RESISTORS** 

R3901-R3904 RD1/2MMF100J

OTHERS

JA3901 SPEAKER TERMINAL AKE1061

**POWER SUPPLY UNIT** 

POWER SUPPLY Unit has no service part.

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PDP-506PE

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**=** 2

## 6. ADJUSTMENT

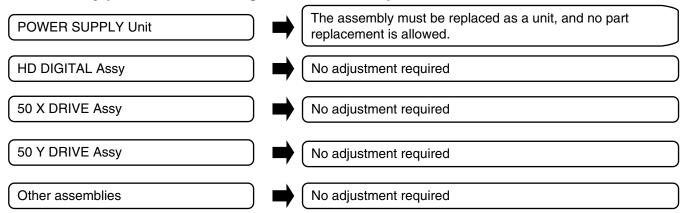


- 1. At shipment, the unit is adjusted to its best conditions. Normally, it is not necessary to readjust even if an assembly is replaced. If the adjustment is shifted or if it becomes necessary to readjust because of part replacement, etc., perform the adjustment as described below.
- 2. Any value changed in Service/Factory mode will be stored in memory as soon as it is changed. Before readjustment, take note of the original values for reference in case you need to restore the original settings.
- 3. Use a stable AC power supply.

### 6.1 ADJUSTMENT REQUIRED WHEN THE SET IS REPAIRED OR REPLACED

## ■ When any of the following assemblies is replaced **POWER SUPPLY Unit** (Clear the history data on the number of power-ons.) Refer to "7.1.7 HOW TO CLEAR HISTORY DATA." Writing of backup data is required. **HD DIGITAL Assy** Refer to the "7.1.6 BACKUP WHEN THE MAIN UNIT IS ADJUSTED. " 50 X DRIVE Assy No adjustment required 50 Y DRIVE Assy No adjustment required Refer to the "6.3 METHOD FOR REPLACING THE SERVICE Service Panel PANEL ASSY." Other assemblies No adjustment required

## ■ When any part in the following assemblies is replaced



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## 6.2 RS-232C COMMAND

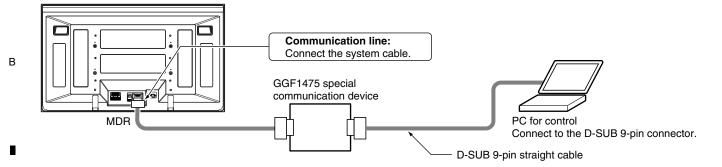
• The panel control items for the PDP-506PE, PU / PDP-436PE, PU systems can be controlled with the RS-232C commands by connecting a PC through the GGF1475 special communication device when the Media Receiver is not connected with the PDP.

3

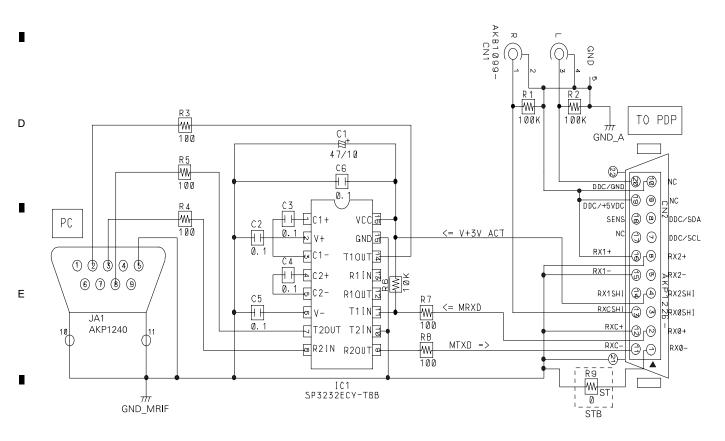
Note: The special communication device for the PDP-503P cannot be used with this unit, because the control lines within the MDR cable are different.

### 1. Connection

С



## • Schematic diagram of the special communication device



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### 2. Command format

### ■ Communication protocol

Start bit : 1bit
Data : 8bit
Parity : 0 (none)
Stop bit : 1bit
Baud rate : 38400bps

### ■ Start and stop conditions

STX (start condition): 0x02 ETX (stop condition): 0x03

### ■ ID setting

No ID setting (corresponding to all ASCII codes)

### ■ Acknowledgement (ACK)

- Acknowledgement (ACK) will be sent back when the unit returns to Standby mode for the next command after the process of the received command is finished.
- The return data will be a received command in capital letters, but without an ID.

Example of communication: For a command listed on the command list

MR / External PC

STX

0x02

ID	Command	ETX
**	CBU	0x03



STX   Command		ETX
0x02	CBU	0x03

Returns from the PDP

• If a received command is not one listed on the command list, "ERR" (3 characters) will be sent back.

Example of communication: For a command that is not listed on the command list

MR / External PC

STX	ID	Command	ETX
0x02	**	AAA	0x03



STX	Command	ETX
0x02	ERR	0x03

Returns from the PDP

• If the operation of a received command is not possible in a certain status, "XXX" (3 characters) will be sent back.

Example of communication: If an adjustment command that gives an adjustment value out of the adjustable range is sent

MR / External PC

STX	ID	Adjustment Command	Adjustment Value	ЕТХ
0x02	**	VOL	128	0x03



Returns from the PDP				
STX	ETX			
0x02	XXX	0x03		

### **■** Error process

If an error is generated between STX and ETX, a return signal will not be issued.

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### 3. Definition of various commands

### **■** Simple-function command

A simple-function command orders an operation that will conclude by itself, and it consists of 3 characters.

Example of communication:

### MR / External PC

STX	ID	Command	ETX
0x02	**	CPD	0x03



### Returns from the PDP

STX	Command	ETX
0x02	CPD	0x03

### ■ Adjustment command and adjustment value

An adjustment command is accompanied by an adjustment value and orders a change in the adjustment value, such as for the contrast adjustment.

- Adjustment command + adjustment value => The attached parameter will be the adjustment value.
- The adjustment value to be attached to an adjustment command consists of 3 characters in decimal, in the range of 000 to 999.

Example of communication:

### MR / External PC

STX	ID	Adjustment Command	Adjustment Value	ЕТХ
0x02	**	CNT	128	0x03



### Returns from the PDP

STX	Adjustment Command	Adjustment Value	ETX
0x02	CNT	128	0x03

- If the adjustment value of the received command is out of the adjustable range, "XXX" will be sent back, and the adjustment value will not be changed.
- If the adjustment value of the received command is the same as the current adjustment value, the adjustment value will be overwritten, and "XXX" will not be sent back.

### ■ Setup command and setup value

A setup command is accompanied by a setup value and orders a change in the setup value, such as for the mask setup.

- Setup command + setup value => The attached parameter will be the setup value.
- The setup value to be attached to a setup command consists of 3 characters in decimal, in the range of S00 to S99.

### D Example of communication:

### MR / External PC

STX	ID	Adjustment Command	Adjustment Value	ETX
0x02	**	MKS	S02	0x03



### Returns from the PDP

STX	Adjustment Command	Adjustment Value	ETX
0x02	MKS	S02	0x03

- If the setup value of the received command is out of the range, "XXX" will be sent back, and the setup value will not be changed.
- If the setup value of the received command is the same as the current setup value, the setup value will be overwritten, and "XXX" will not be sent back.

### ■ QUEST (acquiring status) command

If a QUEST command is received from the main unit's microcomputer, data for various adjustment values will be read from memory and sent back. The return data consist of the received command as an echo back, return data, and a checksum.

- Return data: A string of characters defined for each QUEST command is converted into ASCII codes and transmitted.
- The configuration and the data length of return data are defined for individual QUEST commands.

Example of communication:

### MR / External PC

 STX
 ID
 QST Command
 ETX

 0x02
 \*\*
 QS1
 0x03



### Returns from the PDP

STX	QST Command	Return Data	Checksum	ETX
0x02	QS1	54AHM2**	7B	0x03

• Checksum (CS): A checksum is used for judging if any error exists in the data sent back from the panel. If an error is detected, it is possible to resend the QUEST command from the MR / External PC to try to acquire data again.

	mand ime		Function	Effective only in Factory mode	Remarks
Α					
ABL	***	ABL ADJUSTMENT	Adjusting the upper limit of the power	0	
AMT	S00	AUDIO MUTE OFF	Turning off the audio muting		
	S01	AUDIO MUTE ON	Turning on the audio muting		
APW	S00	APL WB FUNCTION:OFF	WB correction interlocked with APL: OFF	0	
	S01	APL WB FUNCTION:ON	WB correction interlocked with APL: ON	0	
В					
BAL	***	BALANCE ADJUSTMENT	Audio balance adjustment		
BAS	***	BASS ADJUSTMENT	Audio bass adjustment		
ВСР		BACKUP COPY	Copying the backup data in the EEPROM	0	
С					
CBU		CLEAR BACKUP	Clearing backup data	0	
СНМ		CLEAR HOUR METER	Clearing data of the hour meter	0	Used only when the panel is replaced
CPC		CLEAR POWER ON COUNT	Clearing power-on count data	0	Used only when the power unit is replaced
CPD		CLEAR POWER DOWN	Clearing power-down information	0	Used only when the panel is replaced
СРМ		CLEAR PLUSE METER	Clearing data of the pulse meter	0	Used only when the panel is replaced
CSD		CLEAR SHUT DOWN	Clearing shutdown information	0	Used only when the panel is replaced
D					, , , ,
DRV	S00	DRIVE OFF	Main power off		
	S01	DRIVE ON	Main power on		
E					
ESV	S00	POWER CONTROL NORMAL	Setting Power Consumption mode to 4-split normal curve		
	S01	POWER CONTROL MODE1	Setting Power Consumption mode to 2-split normal curve		
	S02	POWER CONTROL MODE2	Setting Power Consumption mode to 2-split power-saving curve		
	S10	POWER CONTROL NORMAL	Setting Power Consumption mode to 4-split normal curve (domestic)		
	S11	POWER CONTROL MODE1	Setting Power Consumption mode to 2-split normal curve (domestic)		
	S12	POWER CONTROL MODE2	Setting Power Consumption mode to 2-split power-saving curve (domestic)		
F					
FAJ		FINISH ADJUSTMENT	Determining the flag of the HD DIGITAL Assy adjustment in "adjustment is completed"	0	
FAN		FACTRY NO		0	
FAY		FACTRY YES	Entering Factory mode		Turning the mask setting off
FCS	S00	FOCUS OFF	Turning the FOCUS function off		<u> </u>
	S01	FOCUS ON	Turning the FOCUS function on		
М					
MKC	S00	MASK COMBINATION OFF	MASK off		
	S01	MASK COMBINATION 01	H ramp (slant 1) M	0	
	S02	MASK COMBINATION 02	H ramp (slant 4) M	0	
	S03	MASK COMBINATION 03	Slanting ramp M	0	
	S04	MASK COMBINATION 04	30 for aging	0	
	S05	MASK COMBINATION 05	05 for aging	0	
	S06	MASK COMBINATION 06	Erasing afterimage 1	0	
	S07	MASK COMBINATION 07	Erasing afterimage 2 (RGB: zigzag, V: reverse)	0	
	S08	MASK COMBINATION 08	White (change in luminance level)	0	
	S09	MASK COMBINATION 09	PEAK SEEK RASTER	0	
MKS	S00	MASK SINGLE OFF	MASK OFF		
		MASK SINGLE 1	H ramp (slant 1)	0	
	S02	MASK SINGLE 2	H ramp (slant 4)	0	
	S03	MASK SINGLE 3	V ramp (slant 1)	0	
	S04	MASK SINGLE 4	Slanting ramp	0	

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	mand ime		Function	Effective only in Factory mode	Remarks
MKS	S05	MASK SINGLE 5	Window(Hi=870Lo=102)	0	
	S06	MASK SINGLE 6	Window(Hi=1023Lo=102)	0	
	S07	MASK SINGLE 7	Window(Hi=1023)	0	
	S08	MASK SINGLE 8	Window(Hi=1023)4%	0	
	S09	MASK SINGLE 9	Window(Hi=1023)1.25%	0	
	S10	MASK SINGLE 10	Window(1/7LINE)	0	
	S11	MASK SINGLE 11	STRIPE(MGT/GRN)	0	
	S12	MASK SINGLE 12	STRIPE(GRN/MGT)	0	
	S13	MASK SINGLE 13	B & W, checker (1 line)	0	
	S14	MASK SINGLE 14	B & W, checker (2 lines)	0	
	S15	MASK SINGLE 15	B & W, checker (4 lines)	0	
	S16	MASK SINGLE 16	B & W, checker (8 lines)	0	
	S17	MASK SINGLE 17	COLOR BAR	0	
	S18	MASK SINGLE 18	Slanting lines	0	
	S19	MASK SINGLE 19	Red & black, checker (1 line)	0	
	S20	MASK SINGLE 20	Red & black, checker (2 lines)	0	
	S21	MASK SINGLE 21	Red & black, checker (4 ines)	0	
	S22	MASK SINGLE 22	Red & black, checker (8 lines)	0	
	S23	MASK SINGLE 23	RGB zigzag, V reverse	0	
	S24	MASK SINGLE 24	SUS 2000 pulses (black raster)	0	
	S25	MASK SINGLE 25	Window(Hi=870Lo=102) PATTAN3	0	
	S26	MASK SINGLE 26	Window(Hi=1023Lo=102) PATTAN3	0	
	S27	MASK SINGLE 27	Window(Hi=1023) Pattern 3	0	
	S28	MASK SINGLE 28	Window(Hi=1023)4% Pattern 3	0	
	S29	MASK SINGLE 29	Window(Hi=1023)1.25% Pattern 3	0	
	S30	MASK SINGLE 30	Window(1/7LINE) Pattern 3	0	
	S51	MASK SINGLE 51	Raster - White	0	
	S52	MASK SINGLE 52	Raster - Red	0	
	S53	MASK SINGLE 53	Raster - Green	0	
	S54	MASK SINGLE 54	Raster - Blue	0	
	S55	MASK SINGLE 55	Raster - Black	0	
	S56	MASK SINGLE 56	Raster - Cyan	0	
	S57	MASK SINGLE 57	Raster - Magenta	0	
	S58	MASK SINGLE 58	Raster - Yellow	0	
	S59	MASK SINGLE 59	Raster - Cyan 460 :W	0	
	S60	MASK SINGLE 60	Raster - Green 774 :W	0	
	S61	MASK SINGLE 61	Raster - Gray 912 :W	0	
	S62	MASK SINGLE 62	Raster - Yellow egg color: W	0	
	S63	MASK SINGLE 63	Raster - Beige: W	0	
	S64	MASK SINGLE 64	Raster - Sky color: W	0	
	S65	MASK SINGLE 65	Raster - Pale purple: W	0	
	S66	MASK SINGLE 66	Raster - Magenta 54 :W	0	
	S67	MASK SINGLE 67	Raster - Red 588	0	
	S68	MASK SINGLE 68	Red 1023 + α	0	
	S69	MASK SINGLE 69	Green 1023 + α	0	
	S70	MASK SINGLE 70	Blue 1023 + α	0	
	S71	MASK SINGLE 71	Red 588 + α	0	
	S72	MASK SINGLE 72	Green 588 + α	0	
	S73	MASK SINGLE 73	Blue 588 + α	0	

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Command Name		Function		Effective only in Factory mode	Remarks
MKS	S74	MASK SINGLE 74	Raster -Gray 512 (reservation)	0	
Р					
PAV	S**	PANEL AV MODE	Switching panel functions interlocked with the AV selection		
PBH	***	PANEL BLUE HIGH	Panel white balance adjustment - Blue highlight	0	
PBL	***	PANEL BLUE LOW	Panel white balance adjustment - Blue low light	0	
PDM	S00	PD MUTE OFF	Passing PD signals to the Power SUPPLY Unit => Power-down		
	S01	PD MUTE ON	Not passing PD signals to the Power SUPPLY Unit => No power-down		
PFN		FACTORY NO	Factory mode: off	0	
PFS		PANEL FINAL SETUP	Setup at shipment	0	
PFY		FACTORY YES	Factory mode: on		
PGH	***	PANEL GREEN HIGH	Panel white balance adjustment - Green highlight	0	
PGL	***	PANEL GREEN LOW	Panel white balance adjustment - Green low light	0	
PGM	S**	PANEL GAMMA	Setting of the gamma table		
PMT	S00	MUTE OFF	Canceling panel muting		
	S01	MUTE ON	Panel muting		
POF	1	POWER OFF	Power off		
PON		POWER ON	Power on		
PPT	S00	PANEL PROTECT OFF	Panel protection: off	0	
	S01	PANEL PROTECT ON	Panel protection: on	0	
PUC	S00	PUER CINEMA:OFF	Pure cinema: off	<u> </u>	
	S01	PUER CINEMA:STD	Pure cinema: standard		
	S02	PUER CINEMA:ADV	Pure cinema: advanced		
Q	302	FOLH CINLINA.ADV	rule cilienta, auvanceu		
		OUECT AD ILICTMENT	A carriving various adjustment values		
QAJ		QUEST ADJUSTMENT  QUEST PANEL INFORMATION	Acquiring various adjustment values		
QIP			Acquiring various input signal data		
QPD		QUEST POWER-DOWN	Acquiring logs of power-down points		
QPM		QUEST PULSE METER	Acquiring data of the pulse meter		
QPW		QUEST PANEL WHITE BALANCE	., 9,		
QS1		QUEST STATUS 1	Acquiring data on the unit, such as the version of the program		
QS2		QUEST STATUS 2	Acquiring data on the status of the unit, such as temperature		
QSD		QUEST SHUT DOWN	Acquiring data on shutdown		
QSI		QUEST SIGNAL INFORMATION	Acquiring data related with signals		
R					
RBL	S**	PANEL REVISE BLUE LEVEL	Setting of blue level for panel degradation correction	0	
RGL	S**	PANEL REVISE GREEN LEVEL	Setting of green level for panel degradation correction	0	
RHI	***	RED HIGH	User white balance - Red highlight		
RLW	***	RED LOW	User white balance - Red low light		
RRL	S**	PANEL REVISE RED LEVEL	Setting of red level for panel degradation correction	0	
RSW	***	XY-RST-W ADJ	Adjustment of the width of XY reset pulse	0	
S					
SDM	S00	SD MUTE OFF	Shutdown enabled		
	S01	SD MUTE ON	Shutdown prohibited		
SFR	S01	SUS FREQUENCY MODE1	Measures against AM radio noise - Pattern 1	0	
	S02	SUS FREQUENCY MODE2	Measures against AM radio noise - Pattern 2	0	
	S03	SUS FREQUENCY MODE3	Measures against AM radio noise - Pattern 3	0	
	S04	SUS FREQUENCY MODE4	Measures against AM radio noise - Pattern 4	0	
	S05	SUS FREQUENCY MODE5	Measures against AM radio noise - Pattern 5	0	
	S06	SUS FREQUENCY MODE6	Measures against AM radio noise - Pattern 6	0	
	S07	SUS FREQUENCY MODE7	Measures against AM radio noise - Pattern 7	0	

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Command Name		Function		Effective only in Factory mode	Remarks
SFR	S08	SUS FREQUENCY MODE8	Measures against AM radio noise - Pattern 8	0	
SMM	S**	SIDE MASK MODE	Setting of the effective area during streaking correction	0	
SN0	***	SERIAL NO 0	Setting of the serial No. 0 (panel)	0	
SN1	***	SERIAL NO 1	Setting of the serial No. 1 (panel)	0	
SN2	***	SERIAL NO 2	Setting of the serial No. 2 (panel)	0	
SN3	***	SERIAL NO 3	Setting of the serial No. 3 (panel)	0	
SN4	***	SERIAL NO 4	Setting of the serial No. 4 (panel)	0	
SRS	S00	SRS OFF	SRS function: off		
	S01	SRS ON	SRS function: on		
SYS	S00	SYSTEM CABLE NO	Prohibiting monitoring of cable disconnection detection		
	S01	SYSTEM CABLE YES	Permitting monitoring of cable disconnection detection		
Т					
TBS	S00	TRUBASS OFF	TruBass function: off		
	S01	TRUBASS ON	TruBass function: on		
TRE	***	TREBLE ADJUSTMENT	Audio treble adjustment		
U					
UAJ		UN-ADJUSTMENT	Determining the flag for the HD DIGITAL Assy adjustment in "not adjusted"	0	
V					
VFQ	S01	FREQENCY VIDEO 48Hz	Setting the frequency in Mask mode to VD-48 Hz	0	
	S02	FREQENCY VIDEO 50Hz	Setting the frequency in Mask mode to VD-50 Hz	0	
	S03	FREQENCY VIDEO 60Hz	Setting the frequency in Mask mode to VD-60 Hz	0	
	S05	FREQENCY THEATER 72Hz	Setting the frequency in Mask mode to VD-72 Hz	0	
	S06	FREQENCY 75Hz	Setting the frequency in Mask mode to VD-75 Hz	0	
	S13	FREQENCY PC 60Hz	Setting the frequency in Mask mode to PC-60 Hz	0	
	S14	FREQENCY PC 70Hz	Setting the frequency in Mask mode to PC-70 Hz	0	
	S22	FREQENCY VIDEO 50Hz NONSTD	Setting the frequency in Mask mode to VD-50 Hz (nonstandard)	0	
	S23	FREQENCY VIDEO 60Hz NONSTD	Setting the frequency in Mask mode to VD-60 Hz (nonstandard)	0	
	S25	FREQENCY VIDEO 72Hz NONSTD	Setting the frequency in Mask mode to VD-72 Hz (nonstandard)	0	
	S26	FREQENCY VIDEO 75Hz NONSTD	Setting the frequency in Mask mode to VD-75 Hz (nonstandard)	0	
VOF	***	Vofs ADJUSTMENT	Adjustment of the reference value of Vofs voltage	0	
VOL	***	VOLUME	Audio volume adjustment		
VRP	***	Vrp ADJUSTMENT	Adjustment of the reference value of Vrst-p voltage	0	
VSU	***	Vsus ADJUSTMENT	Adjustment of the reference value of Vsus voltage	0	
w					
WBI	S00	WB INITIALIZE NO	B INITIALIZE NO Panel WB standard output mode: off		
WBI	S01	WB INITIALIZE YES	Panel WB standard output mode: on	0	
х					
XSB	***	X-SUS-B ADJ	X-SUS-B ADJ	0	
Υ					
YSB	***	Y-SUS-B ADJ	Y-SUS-B ADJ	0	
YTG	***	Y-SUSTAIL ADJ	Y-SUSTAIL ADJ	0	
YTW	***	Y-SUSTAIL W AJD	Y-SUSTAIL W AJD	0	

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## 5. QUEST commands (for acquiring status)

With a QUEST command, data on STBY/ON, PD, and SD can be obtained while the unit is on.

### ■ Acquisition of panel statuses • • • [QS1]

The command QS1 is for acquiring data necessary for authentication of both the main unit's microcomputer and the module's microcomputer.

Command Format	Effective Operation Modes	Function	Remarks
[QS1]	All operations	To acquire data on product status	Return data: 3 (ECO)+43(DATA)+2(CS)=48Byte

	Data Arrangement	Data Length	Output Example
ECO		3Byte	QS1
1	Resolution/size	1Byte	5
2	Generation	1Byte	6
3	Destination	1Byte	*
4	Grade	1Byte	*
5	Product type	1Byte	S
6	MDUcom-Boot	3Byte	01A
7	MDUcom-PRG	8Byte	001SM "space × 3"
8	SEQUENCE PROCESSOR-Boot	3Byte	01A
9	SEQUENCE PROCESSOR-Boot	8Byte	001AM "space × 3"
10	SQ-VIDEO(43/42)	4Byte	001X
11	SQ-PC(43/42)	4Byte	001X
12	SQ-VIDEO(50/61)	4Byte	001W
13	SQ-PC(50/61)	4Byte	001W
cs		2Byte	7B

■ Resolution/size				
4	1024*768-43			
5	1280*768-50			

● Generation				
6	G6			

<ul><li>Destination</li></ul>			
*	Common		

● Grade				
*	Common			

MDUcom/SEQUENCE PROCESSOR-Boot • • • 3Byte				
1st character		Representing the boot version in 2-digit		
2nd character		decimal		
3rd character A		When the boot version is common to 43/50		
Х		When the boot version is only for 43		
	W	When the boot version is only for 50		

● Product type		
S	System model	

MDUcom/s	● MDUcom/SEQUENCE PROCESSOR-PRG • • • 8Byte					
1st character –		For a mass-production product				
2nd character 3rd character		For representing the version in 2-digit decimal				
4th character	Α	When the program is common to 43/50 (for SEQUENCE PROCESSOR)				
	S	When the program is only for another unit (for MDUcom)				
5th character	М	Fixed				
6th character		Reservation				
7th character		Reservation				
8th character		Reservation				

SEQUENCE-Data • • • 8Byte					
1st - 3rd characters	Num	For representing the version in 3-digit decimal			
446	W	When the sequence data are only for 50			
4th character	Х	When the sequence data are only for 43			

• For the version indication, the bytes reserved for special use must be replaced with spaces if they are not used.

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■ Acquisition of panel operation data • • • [QS2]

The command QS2 is for acquiring data on the panel's operations. Basically, this command is used for the module's microcomputer to inform the main unit's microcomputer of changes in panel operation.

Command Format	Effective Operation Modes	Function	Remarks
[QS2]	All operations	To acquire data on operations of the panel	Return data: 3 (ECO)+23(DATA)+2(CS)=28Byte

	Data Arrangement	Data Length	Output Example
ECO		3Byte	QS2
1	Notification of mode shifting to STB	1Byte	1
2	Flag for adjustment of the main unit	1Byte	0
3	Flag for adjustment-data backup	1Byte	0
4	"1st PD" data	1Byte	0
5	"2nd PD" data	1Byte	0
6	Reservation	3Byte	***
7	Temperature data (TEMP 1)	3Byte	128
8	SD main data	1Byte	0
9	SD subdata	1Byte	0
10	Operation status induced by SD	1Byte	0
11	Data from the hour meter	8Byte	00000259
12	MASK indication	1Byte	0
cs		2Byte	4A

Note: "00000259" of "Data from the hour meter" means 2 hours 59 minuts.

 Notification of mode shifting to Standby

Entering Standby mode failed **Entering Standby** mode succeeded

Adjustment of the main unit		
0	Adjustment completed	
1	Adjustment not completed	

	ustment-data ckup
0	With backup data
1	No data

● PD	data	
0	No PD data	
1	Not used	
2	POWER	
3	SCAN	
4	SCN-5V	
5	Not used	
6	Y-DCDC	
7	Y-SUS ADRS	
8		
9	X-DRV	
Α	X-DCDC	
В	X-SUS	
С	Not used	
D	SQ-IC  Not used  Specification inability	
Е		
F		

SD main data		
0	No SD	
1	SQ-IC	
2	MDU-IIC	
3	RST2	
4	Panel having high temperature	
5	Short-circuited speaker	

● SD subdata (IIC)			
0	No SD subdata		
1	EEPROM		
2	BACKUP		
3	DAC		
4	VOL IC		
5	DVI		

	<ul> <li>Operation status induced by SD</li> </ul>		
0	Normal		
1	Relay-off completed		
2	During warning indication		

■ MASK indication		
0	MASK-OFF	
1	MASK-ON	

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### ■ Acquisition of other data on the panel • • • [QIP]

The command QIP is for acquiring data other than those available with QS1 (data necessary before turning the power on) and QS2 (data to inform of operational status change).

Command Format	Effective Operation Modes	Function	Remarks	
[QIP]	All operations	To acquire data on operations of the panel	Return data: 3 (ECO)+39(DATA)+2(CS)=44Byte	

Data Arrangement		Data Length	Output Example
ECO		3Byte	QIP
1	SERIAL	15Byte	
2	HOUR METER	8Byte	00000000
3	BACKUP HR MTR	8Byte	00000000
4	PON COUNTER	8Byte	00000000
cs		2Byte	94

Note: The real product serial number is displayed in "SERIAL".

### ■ Acquisition of panel adjustment data (common data) • • • [QAJ]

The command QAJ is for acquiring data on the panel's factory-preset items that are common to the main unit and that share the same memory.

Command Format	Effective Operation Modes	Function	Remarks	
[QAJ]	All operations	To acquire data on operations of the panel	Return data: 3 (ECO)+27(DATA)+2(CS)=32Byte	

	Data Arrangement	Data Length	Output Example
ECO		3Byte	QAJ
1	V-SUS adjustment value	3Byte	128
2	V-OFT adjustment value	3Byte	128
3	V-RST-P adjustment value	3Byte	128
4	XSB adjustment value	3Byte	128
5	YSB adjustment value	3Byte	128
6	YTG adjustment value	3Byte	128
7	YTW adjustment value	3Byte	128
8	RSW adjustment value	3Byte	128
9	R-RIVISE setting value	1Byte	0
10	G-RIVISE setting value	1Byte	0
11	B-RIVISE setting value	1Byte	0
cs		2Byte	B7

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## ■ Acquisition of ABL/WB adjustment data • • • [QPW]

The command QPW is for acquiring data on the panel's factory-preset items whose memory tables are changed in sequence.

Command Format	Effective Operation Modes	Function	Remarks
[QPW]	All operations	To acquire data on operations of the panel	Return data: 3 (ECO)+35(DATA)+2(CS)=40Byte

	Data Arrangement	Data Length	Output Example
ECO		3Byte	QPW
1	Drive sequence	3Byte	60V
2	Standard/nonstandard	1Byte	S
3	Type of ABL/WB tables	2Byte	T2
4	ABL adjustment value	3Byte	128
5	R-HIGH adjustment value	3Byte	256
6	G-HIGH adjustment value	3Byte	256
7	B-HIGH adjustment value	3Byte	256
8	R-LOW adjustment value	3Byte	512
9	G-LOW adjustment value	3Byte	512
10	B-LOW adjustment value	3Byte	512
11	Gamma setting	1Byte	Α
12	Streaking correction	1Byte	1
13	Peripheral luminance correction	1Byte	0
14	Reservation	1Byte	*
15	WB interlocked with APL	1Byte	0
16	Transition of protective operations	1Byte	0
17	Reservation	2Byte	**
cs		2Byte	37

<ul><li>Driv</li></ul>	ve sequence		
48V	Video48 Hz		
50V	Video50 Hz		
60V	Video60 Hz		
72V	Video72 Hz		
75V	Video75 Hz		
60P	PC60Hz		
70P	PC70Hz		

● Setting for Items 12 and 15			
0	OFF		
1	ON		
	1011		

Peripheral luminance correction		
0	OFF	
2	ON (interlocked with APL)	

Standard/     nonstandard		
S	Standard	
N Nonstandard		

<ul> <li>Transition of brightness by protective operations</li> </ul>				
0	Upper limit state for brightness			
1 Brightness being reduced				
2	Lower limit state for brightness			
3	Brightness heing increased			

● Gamma setting			
n 0 to F			

● Type of ABL/WB tables				
Tn	n: 1 to 4			

### ■ Acquisition of parameters • • • [QPM]

The command QPM is for acquiring the accumulated number of pulses for each of 5 blocks from the EEPROM.

Command Format	Effective Operation Modes	Function	Remarks
[QPM]	All operations	To acquire data on operations of the panel	Return data: 3 (ECO)+40(DATA)+2(CS)=45Bvte

Data Arrangement		Data Length	Output Example
ECO		3Byte	QPM
1	Pulse meter B 1	8Byte	00000000
2	Pulse meter B 2	8Byte	00000000
3	Pulse meter B 3	8Byte	00000000
4	Pulse meter B 4	8Byte	00000000
5	Pulse meter B 5	8Byte	00000000
cs		2Byte	E7

<sup>•</sup> The output data on the accumulated number of pulses for each block are calculated in the following way: the high-order 4 bytes of the accumulated number of pulses for each block are converted into a decimal number, and the high-order 8 digits are transmitted. The unit of each block is M\_pulse (mega).

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■ Acquisition of PD logs • • • [QPD]

The command QPD is for acquiring data from the 8 latest power-down (PD) logs.

Command Format	Effective Operation Modes	Function	Remarks
[QPD]	All operations	To acquire data on the power-down logs	Return data: 3 (ECO)+80(DATA)+2(CS)=85Byte

	Data Arrangement	Data Length	Output Example
ECO		3Byte	QPD
1	Latest "1st PD" data	1byte	Α
2	Latest "2nd PD" data	1byte	2
3	Data from the hour meter for the latest PD	8byte	00010020
4	Second latest "1st PD" data	1byte	E
5	Second latest "2nd PD" data	1byte	9
6	Data from the hour meter for the second latest PD	8byte	00008523
7	Third latest "1st PD" data	1byte	4
8	Third latest "2nd PD" data	1byte	3
9	Data from the hour meter for the third latest PD	8byte	00004335
10	Fourth latest "1st PD" data	1byte	2
11	Fourth latest "2nd PD" data	1byte	0
12	Data from the hour meter for the fourth latest PD	8byte	00000945
13	Fifth latest "1st PD" data	1byte	4
14	Fifth latest "2nd PD" data	1byte	0
15	Data from the hour meter for the fifth latest PD	8byte	00000715
16	Sixth latest "1st PD" data	1byte	Α
17	Sixth latest "2nd PD" data	1byte	2
18	Data from the hour meter for the sixth latest PD	8byte	00000552
19	Seventh latest "1st PD" data	1byte	Α
20	Seventh latest "2nd PD" data	1byte	0
21	Data from the hour meter for the seventh latest PD	8byte	00000213
22	Eighth latest "1st PD" data	1byte	D
23	Eighth latest "2nd PD" data	1byte	0
24	Data from the hour meter for the eighth latest PD	8byte	000001A7
cs		2Byte	27

● PD	● PD data		
0	No PD		
1	Not used		
2	P-POWER		
3	SCAN		
4	SCN-5V		
5	Not used		
6	Y-DCDC		
7	Y-SUS		
8	Address		
9	X-DRIVE		
Α	X-DCDC		
В	X-SUS		
С	DIG-DCDC		
D	QS (driving stopped)		
Е	Not used		
F	Specification inability		

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В

С

D

Е

■ Acquisition of SD logs • • • [QSD]

The command QSD is for acquiring the data from the 8 latest shutdown (SD) logs.

Command Format	Effective Operation Modes	Function	Remarks
[QSD]	All operations	To acquire data on the shutdown logs	Return data: 3 (ECO)+80(DATA)+2(CS)=85Byte

	Data Arrangement	Data Length	Output Example
ECO		3Byte	QSD
1	Latest SD data	1byte	1
2	Latest SD subcategory data	1byte	0
3	Data from the hour meter for the latest SD	8byte	00752013
4	Second latest SD data	1byte	5
5	Second latest SD subcategory data	1byte	0
6	Data from the hour meter for the second latest SD	8byte	00495204
7	Third latest SD data	1byte	2
8	Third latest SD subcategory data	1byte	3
9	Data from the hour meter for the third latest SD	8byte	00100355
10	Fourth latest SD data	1byte	2
11	Fourth latest SD subcategory data	1byte	5
12	Data from the hour meter for the fourth latest SD	8byte	00075620
13	Fifth latest SD data	1byte	1
14	Fifth latest SD subcategory data	1byte	0
15	Data from the hour meter for the fifth latest SD	8byte	00000852
16	Sixth latest SD data	1byte	2
17	Sixth latest SD subcategory data	1byte	5
18	Data from the hour meter for the sixth latest SD	8byte	000000451
19	Seventh latest SD data	1byte	0
20	Seventh latest SD subcategory data	1byte	0
21	Data from the hour meter for the seventh latest SD	8byte	00000000
22	Eighth latest SD data	1byte	0
23	Eighth latest SD subcategory data	1byte	0
24	Data from the hour meter for the eighth latest SD	8byte	00000000
cs		2Byte	7D

● SD data		
0	No SD	
1	SQ-IC	
2	MDU-IIC	
3	RST2	
4	Panel having high temperature	
5	Short-circuited speaker	

• SD	● SD subcategory		
0	No SD subcategory		
1	EEPROM		
2	BACKUP		
3	DAC		
4	VOL-IC		
5	DVI		
6	Not used		

Ε

В

## ■ Acquisition of input signal data • • • [QSI]

The command QSI is for acquiring all data on input video signals.

Command Format	Effective Operation Modes	Function	Remarks
[QSI]	All operations	To acquire all data on input video signals	Return data: 3 (ECO)+66(DATA)+2(CS)=71Byte

	Data Arrangement	Data Length	Output Example
ECO		3Byte	QSI
1	Type of drive sequence	3byte	60V
2	Standard/nonstandard	1byte	S
3	Type of ABL/WB tables	2byte	T1
4	Total value of PCN	4byte	0256
5	Total value of PRH	4byte	0256
6	Total value of PGH	4byte	0256
7	Total value of PBH	4byte	0256
8	Total value of PBR	4byte	0512
9	Total value of PRL	4byte	0512
10	Total value of PGL	4byte	0512
11	Total value of PBL	4byte	0512
12	Reservation	2byte	**
13	Detection of existence of H	1byte	Υ
14	Detection of V frequency	4byte	6002
15	Reservation	4byte	****
16	Obtained APL data	4byte	1023
17	Number of SUS pulses	4byte	0457
18	Result of detection of still picture	1byte	1
19	Result of detection of cracking in the panel	1byte	1
20	Result of detection for scanning protection	1byte	1
21	Result of detection for external protection	1byte	1
22	Transition of protection operation	1byte	0
23	Reservation	4byte	****
cs		2Byte	27

● Detection of existence of H			
N	No H		
Y H detected			

<ul> <li>Transition of brightness by protection operation</li> </ul>			
0	Upper limit state for brightness		
1	Brightness being reduced		
2	Lower limit state for brightness		
3	Brightness being increased		

- If data for an item cannot be obtained during Standby mode, the return data for that item will be "\*."
- The types of data for Items 1-3 in the table (drive sequence, standard/nonstandard, and type of ABL/WB tables) are the same as with the command QPW.
- Each total value for Items 4-11 represents that of panel WB, user WB, and degradation correction, and the actual data being sent to the ASTRA are output.
- Detection of V frequency: The V signal input to the panel is measured in the range of 30.51 to 99.99 Hz. The measured value is multiplied by 100 and then output.
- Number of SUS pulses : The number is calculated from data from APL and the drive sequence. The output value must be between 0174 and 2752.
- APL value: The APL value for the input video signal (or mask indication) will be output in the range of 0000 to 1023.

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## ■ Setting for Factory mode permission/prohibition • • • [FAY/FAN] [PFY/PFN]

The commands FAY/FAN and PFY/PFN are for prohibiting/permitting panel-adjustment commands during normal operation and are to be used to avoid accidental change of panel adjustment values.

0	Operation		
Command Format	Effective Operation Modes	Control (by the microcomputer itself)	Remarks
[FAY]	Normal operation mode		Mask indications will be forcibly turned off.
[PFY]	while the power is on	Adjustment mode: ON	With a PFY command, the mask does not change.
[FAN]	During FAV	A division and in a day OFF	
[PFN]	During FAY	Adjustment mode: OFF	

• Commands that are effective during normal operation will also be effective during FAY (PFY) mode.

### Note:

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• The functions shown below will be forcibly switched when Mask ON/OFF is switched. (Even if the panel is off, changed settings will be retained.)

While the status of Mask ON or OFF is maintained, if settings for the individual functions shown in ① and ② are changed, those settings are retained (even if the drive frequency is changed).

### 1) Functions related to picture quality

Function	Setting while Mask is ON	Setting while Mask is OFF	Remarks
Peripheral luminance correction	OFF	ON	
WB correction interlocked with APL	OFF	ON	
Streaking correction	OFF	ON	

### 2 Functions related to panel protection

Function	Setting while Mask is ON	Setting while Mask is OFF	Remarks
Detection of still picture	OFF	ON	
Detection of cracking in the panel	OFF	ON	
Scanning protection	OFF	ON	

• Depending on the type of mask displayed, phosphor burn of the panel may occur. As the panel-protection function is forcibly turned off with this model, care must be taken when color-bar signals are to be displayed for an extended period.

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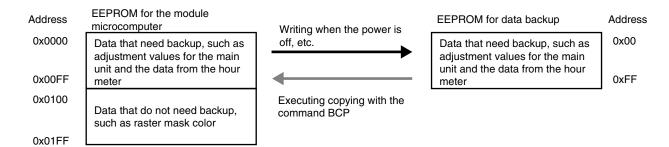
### ■ Backup function for adjustment values for the main unit • • • [FAJ/UAJ/CBU/BCP]

When the HD DIGITAL Assy is to be replaced, adjustment values can be copied from the backup EEPROM to the EEPROM of the Assy for service.

Command				
Command Format	Effective Operation Modes	Control (by the	Remarks	
[FAJ]		To make the flag setting that indicating that adjustment of the main unit has been completed	Writing 00 to the 4-kbyte ROM and copying to the 2-kbyte ROM	This takes at least 350 ms.
[UAJ]	During FAY	To make the flag setting that indicating that adjustment of the main unit has not been completed	Writing F0 to the 4-kbyte ROM	
[CBU]		To make the flag setting that indicating that backup data have not been copied	Writing F0 to the 2-kbyte ROM	The backup ROM is initialized.
[BCP]		To make the flag setting that indicating that backup data have been copied	Copying backup data	

When the flag indicating that the line adjustments (SUS waveform, voltage margin, and panel WB) for the main unit have been completed is set to on, data stored from Addresses 0x0000 to 0X00FF in the digital EEPROM are copied to the same addresses of the backup EEPROM. Copying will be executed immediately before the relay of normal operation is off.

- When the command BCP is received while a warning indicating that backup copying has not been completed is displayed (conditions: main EEPROM = not adjusted, and backup EEPROM = adjusted), backed-up data will be copied to the main EEPROM, and various adjustment values related to Factory mode will be readjusted. Then LED warning indication will be shut off, and normal LED indication will be restored.
- If the backup EEPROM has not been adjusted when the command BCP is received (0x0063 is not written to all three addresses of the key data), copying of the backup data is not possible, and "XXX" is returned.



### Note:

- When the command FAJ, UAJ, or CBU is executed, only high-order one-byte (0x00 or 0xF0) key data will be written to the EEPROM, and lower-order one-byte (0x63) data will not be changed.
- It takes at least 350 ms from reception of the command FAJ until an echo is sent back, because data are copied to the backup EEPROM.

### ■ Factory presetting • • • [PFS]

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Command		Operation		
Format	Effective Operation Modes	Control (by the micro	ontrol (by the microcomputer itself)	
[PFS]	During FAY	Initialized to factory-preset values		

• When this command is executed, the values not stored in the EEPROM are initialized, mask indication is set to OFF, control of the power for line aging is set to OFF, and detection of the system cable is set to ON.

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PDP-506PE

**—** 7

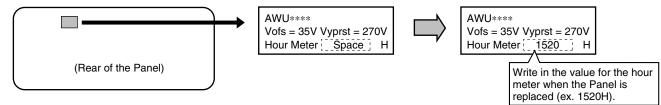
## 6.3 METHOD FOR REPLACING THE SERVICE PANEL ASSY

When the Panel Assy is replaced with one for service, the following adjustments are required:

### ■ Adjustments of Vofs voltage and Vyprst voltage

Enter the reference adjustment values for the Vofs voltage and Vyprst voltage that are written on the label attached to the panel for service.

Note: Enter the values, using an RS-232C command or the Factory Menu.



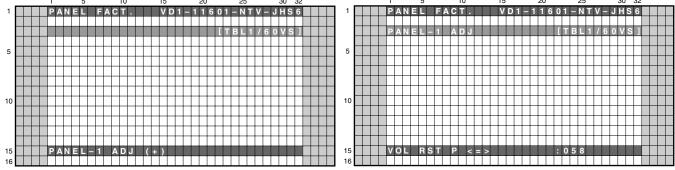
### Using an RS-232C command

Enter a "PFY" command with Factory mode ON.

Convert the adjustment voltage values written on the label attached at the rear of the Panel to an input command, referring to the conversion chart. (See the next page.)

- Reference adjustment of the Vofs voltage: Ex. "Vofs = 35" → (Check the conversion chart.) Enter "VOF112."
- Reference adjustment of the Vyprst voltage: Ex. 50-inch "Vyprst = 270 V" → (Check the conversion chart.) Enter "VRP055." (Note that the conversion charts for 50-inch and 43-inch Panels are different.)

### **Using the Factory Menu**



Select the main item "PANEL FACT." by pressing the MUTE key then enter Panel Factory mode by pressing the SET key. Using the  $\triangle/\nabla$  keys, select "PANEL-1 ADJ" then press the SET key to enter the next lower nested layer. Select "VOL-OFFSET" or "VOL RST P" then enter a command value converted from the voltage value, using the  $\blacktriangleleft/\triangleright$  keys.

### ■ Clearing data on various histories of the Panel, such as those on the hour meter

- It is necessary to clear the data on the hour meter, etc. to match them to the actual driving hours of the Panel.
- It is also necessary to clear the data on SD and PD, because the accumulated power-on time when a shutdown or power-down occurred is recorded.

Note: Clear the values, using an RS-232C command or the Factory Menu.

There are two types of hour meters. Do not take the MR hour meter for the hour meter.

### Using an RS-232C command

To acquire the accumulated power-on time of the product itself, use the "GS2" RS-232C command.

1 To clear the data on the hour meter (for the Panel) : CHM
2 To clear the data on the pulse meter : CPM
3 To clear the data on the SD history : CSD
4 To clear the data on the PD history : CPD

### **Using the Factory Menu**

See "7.1.7 HOW TO CLEAR HISTORY DATA."

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## **■** Conversion charts for electronic VRs: Conversion chart for the Vofs

Jonversion		e vots (Com		Common voi		for the 50-ii		inch models	•
Command	Voltage value [V] for common sizes	Command	Voltage value [V] for common sizes	Command	Voltage value [V] for common sizes	Command	Voltage value [V] for common sizes	Command	Voltage value [V] for common size
VOF000	14.09	VOF056	24.55	VOF112	35.01	VOF168	45.47	VOF224	55.93
VOF001	14.28	VOF057	24.74	VOF113	35.20	VOF169	45.66	VOF225	56.12
VOF002	14.46	VOF058	24.92	VOF114	35.38	VOF170	45.85	VOF226	56.31
VOF003	14.65	VOF059	25.11	VOF115	35.57	VOF171	46.03	VOF227	56.49
VOF004	14.84	VOF060	25.30	VOF116	35.76	VOF172	46.22	VOF228	56.68
VOF005	15.02	VOF061	25.48	VOF117	35.95	VOF173	46.41	VOF229	56.87
VOF006	15.21	VOF062	25.67	VOF118	36.13	VOF174	46.59	VOF230	57.05
VOF007	15.40	VOF063	25.86	VOF119	36.32	VOF175	46.78	VOF231	57.24
VOF008	15.58	VOF064	26.04	VOF120	36.51	VOF176	46.97	VOF232	57.43
VOF009	15.77	VOF065	26.23	VOF121	36.69	VOF177	47.15	VOF233	57.61
VOF010	15.96	VOF066	26.42	VOF122	36.88	VOF178	47.34	VOF234	57.80
VOF011	16.14	VOF067	26.61	VOF123	37.07	VOF179	47.53	VOF235	57.99
VOF012	16.33	VOF068	26.79	VOF124	37.25	VOF180	47.71	VOF236	58.17
VOF013	16.52	VOF069	26.98	VOF125	37.44	VOF181	47.90	VOF237	58.36
VOF014	16.70	VOF070	27.17	VOF126	37.63	VOF182	48.09	VOF238	58.55
VOF015	16.89	VOF071	27.35	VOF127	37.81	VOF183	48.27	VOF239	58.73
VOF016	17.08	VOF072	27.54	VOF128	38.00	VOF184	48.46	VOF240	58.92
VOF017	17.27	VOF073	27.73	VOF129	38.19	VOF185	48.65	VOF241	59.11
VOF018	17.45	VOF074	27.91	VOF130	38.37	VOF186	48.83	VOF242	59.30
VOF019	17.64	VOF075	28.10	VOF131	38.56	VOF187	49.02	VOF243	59.48
VOF020	17.83	VOF076	28.29	VOF132	38.75	VOF188	49.21	VOF244	59.67
VOF021	18.01	VOF077	28.47	VOF133	38.93	VOF189	49.39	VOF245	59.86
VOF022	18.20	VOF078	28.66	VOF134	39.12	VOF190	49.58	VOF246	60.04
VOF023	18.39	VOF079	28.85	VOF135	39.31	VOF191	49.77	VOF247	60.23
VOF024	18.57	VOF080	29.03	VOF136	39.49	VOF192	49.96	VOF248	60.42
VOF025	18.76	VOF081	29.22	VOF137	39.68	VOF193	50.14	VOF249	60.60
VOF026	18.95	VOF082	29.41	VOF138	39.87	VOF194	50.33	VOF250	60.79
VOF027	19.13	VOF083	29.59	VOF139	40.05	VOF195	50.52	VOF251	60.98
VOF028	19.32	VOF084	29.78	VOF140	40.24	VOF196	50.70	VOF252	61.16
VOF029	19.51	VOF085	29.97	VOF141	40.43	VOF197	50.89	VOF253	61.35
VOF030	19.69	VOF086	30.15	VOF142	40.62	VOF198	51.08	VOF254	61.54
VOF031	19.88	VOF087	30.34	VOF143	40.80	VOF199	51.26	VOF255	61.72
VOF032	20.07	VOF088	30.53	VOF144	40.99	VOF200	51.45		
VOF033	20.25	VOF089	30.71	VOF145	41.18	VOF201	51.64		
VOF034	20.44	VOF090	30.90	VOF146	41.36	VOF202	51.82		
VOF035	20.63	VOF091	31.09	VOF147	41.55	VOF203	52.01		
VOF036	20.81	VOF092	31.28	VOF148	41.74	VOF204	52.20		
VOF037	21.00	VOF093	31.46	VOF149	41.92	VOF205	52.38		
VOF038	21.19	VOF094	31.65	VOF150	42.11	VOF206	52.57		
VOF039	21.37	VOF095	31.84	VOF151	42.30	VOF207	52.76		
VOF040	21.56	VOF096	32.02	VOF152	42.48	VOF208	52.94		
VOF041	21.75	VOF097	32.21	VOF153	42.67	VOF209	53.13		
VOF042	21.94	VOF098	32.40	VOF154	42.86	VOF210	53.32		
VOF043	22.12	VOF099	32.58	VOF155	43.04	VOF211	53.50		
VOF044	22.31	VOF100	32.77	VOF156	43.23	VOF212	53.69		
VOF045	22.50	VOF101	32.96	VOF157	43.42	VOF213	53.88		
VOF046	22.68	VOF102	33.14	VOF158	43.60	VOF214	54.06		
VOF047	22.87	VOF103	33.33	VOF159	43.79	VOF215	54.25		
VOF048	23.06	VOF104	33.52	VOF160	43.98	VOF216	54.44		
VOF049	23.24	VOF105	33.70	VOF161	44.16	VOF217	54.63		
VOF050	23.43	VOF106	33.89	VOF162	44.35	VOF218	54.81		
VOF051	23.62	VOF107	34.08	VOF163	44.54	VOF219	55.00		
VOF052	23.80	VOF108	34.26	VOF164	44.72	VOF220	55.19		
VOF053	23.99	VOF109	34.45	VOF165	44.91	VOF221	55.37		
VOF054	24.18	VOF110	34.64	VOF166	45.10	VOF222	55.56		
VOF055	24.36	VOF111	34.82	VOF167	45.29	VOF223	55.75		

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■ Conversion charts for electronic VRs: Conversion chart for the Vyprst (1/2)

		· · · · ·	ianao vo. v	oltage values		Tana 40 mo	· · · · · ·	D/2
Command	Voltage [V]		Command	Voltage [V]		Command	Volta	
\/DB000	50-inch Model		\/DD050	50-inch Model		\/DD440	50-inch Model	
VRP000	246.3	236.3	VRP056	270.6	260.6	VRP112	294.9	284.9
VRP001	246.7	236.7	VRP057	271.0	261.0	VRP113	295.4	285.4
VRP002 VRP003	247.1 247.6	237.1	VRP058	271.5	261.5	VRP114	295.8	285.8
			VRP059	271.9	261.9	VRP115	296.2	286.2
VRP004 VRP005	248.0 248.4	238.0 238.4	VRP060	272.3	262.3	VRP116	296.7 297.1	286.7
VRP006	248.9	238.9	VRP061 VRP062	272.8 273.2	262.8 263.2	VRP117 VRP118	297.5	287.1 287.5
VRP007	249.3	239.3	VRP063	273.6	263.6	VRP119	298.0	288.0
VRP008	249.7	239.7	VRP064	274.1	264.1	VRP120	298.4	288.4
VRP009	250.2	240.2	VRP065	274.1	264.5	VRP121	298.8	288.8
VRP010	250.2	240.2	VRP066	274.9	264.9	VRP121	299.3	289.3
VRP010	250.0	240.0	VRP067	274.9	265.4	VRP123	299.7	289.7
VRP011	251.0	241.5	VRP068	275.4	265.8	VRP123	300.1	290.1
VRP012	251.9	241.9	VRP069	276.2	266.2	VRP125	300.6	290.1
VRP014	252.4	242.4	VRP070	276.7	266.7	VRP126	301.0	291.0
VRP015	252.8	242.8	VRP071	277.1	267.1	VRP127	301.4	291.4
VRP016	253.2	243.2	VRP072	277.5	267.1	VRP128	301.9	291.4
VRP017	253.7	243.7	VRP073	278.0	268.0	VRP129	302.3	292.3
VRP018	254.1	244.1	VRP074	278.4	268.4	VRP130	302.7	292.7
VRP019	254.5	244.5	VRP075	278.9	268.9	VRP131	303.2	293.2
VRP020	255.0	245.0	VRP076	279.3	269.3	VRP132	303.6	293.6
VRP021	255.4	245.4	VRP077	279.7	269.7	VRP133	304.0	294.0
VRP022	255.8	245.8	VRP078	280.2	270.2	VRP134	304.5	294.5
VRP023	256.3	246.3	VRP079	280.6	270.6	VRP135	304.9	294.9
VRP024	256.7	246.7	VRP080	281.0	271.0	VRP136	305.3	295.3
VRP025	257.1	247.1	VRP081	281.5	271.5	VRP137	305.8	295.8
VRP026	257.6	247.6	VRP082	281.9	271.9	VRP138	306.2	296.2
VRP027	258.0	248.0	VRP083	282.3	272.3	VRP139	306.7	296.7
VRP028	258.4	248.4	VRP084	282.8	272.8	VRP140	307.1	297.1
VRP029	258.9	248.9	VRP085	283.2	273.2	VRP141	307.5	297.5
VRP030	259.3	249.3	VRP086	283.6	273.6	VRP142	308.0	298.0
VRP031	259.7	249.7	VRP087	284.1	274.1	VRP143	308.4	298.4
VRP032	260.2	250.2	VRP088	284.5	274.5	VRP144	308.8	298.8
VRP033	260.6	250.6	VRP089	284.9	274.9	VRP145	309.3	299.3
VRP034	261.0	251.0	VRP090	285.4	275.4	VRP146	309.7	299.7
VRP035	261.5	251.5	VRP091	285.8	275.8	VRP147	310.1	300.1
VRP036	261.9	251.9	VRP092	286.2	276.2	VRP148	310.6	300.6
VRP037	262.3	252.3	VRP093	286.7	276.7	VRP149	311.0	301.0
VRP038	262.8	252.8	VRP094	287.1	277.1	VRP150	311.4	301.4
VRP039	263.2	253.2	VRP095	287.5	277.5	VRP151	311.9	301.9
VRP040	263.6	253.6	VRP096	288.0	278.0	VRP152	312.3	302.3
VRP041	264.1	254.1	VRP097	288.4	278.4	VRP153	312.7	302.7
VRP042	264.5	254.5	VRP098	288.8	278.8	VRP154	313.2	303.2
VRP043	264.9	254.9	VRP099	289.3	279.3	VRP155	313.6	303.6
VRP044	265.4	255.4	VRP100	289.7	279.7	VRP156	314.0	304.0
VRP045	265.8	255.8	VRP101	290.1	280.1	VRP157	314.5	304.5
VRP046	266.3	256.3	VRP102	290.6	280.6	VRP158	314.9	304.9
VRP047	266.7	256.7	VRP103	291.0	281.0	VRP159	315.3	305.3
VRP048	267.1	257.1	VRP104	291.4	281.4	VRP160	315.8	305.8
VRP049	267.6	257.6	VRP105	291.9	281.9	VRP161	316.2	306.2
VRP050	268.0	258.0	VRP106	292.3	282.3	VRP162	316.6	306.6
VRP051	268.4	258.4	VRP107	292.8	282.8	VRP163	317.1	307.1
VRP052	268.9	258.9	VRP108	293.2	283.2	VRP164	317.5	307.5
VRP053	269.3	259.3	VRP109	293.6	283.6	VRP165	317.9	307.9
VRP054	269.7	259.7	VRP110	294.1	284.1	VRP166	318.4	308.4
VRP055	270.2	260.2	VRP111	294.5	284.5	VRP167	318.8	308.8

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## ■ Conversion charts for electronic VRs: Conversion chart for the Vyprst (2/2)

conversion cha			oltage values fo	or the 50-inch and	43-inch models	
Command	Volta	ge [V]	Command	Voltage [V]		
	50-inch Model 43-inch Model		Command	50-inch Model	43-inch Mode	
VRP168	319.2	309.2	VRP224	343.6	333.6	
VRP169	319.7	309.7	VRP225	344.0	334.0	
VRP170	320.1	310.1	VRP226	344.4	334.4	
VRP171	320.6	310.6	VRP227	344.9	334.9	
VRP172	321.0	311.0	VRP228	345.3	335.3	
VRP173	321.4	311.4	VRP229	345.7	335.7	
VRP174	321.9	311.9	VRP230	346.2	336.2	
VRP175	322.3	312.3	VRP231	346.6	336.6	
VRP176	322.7	312.7	VRP232	347.1	337.1	
VRP177	323.2	313.2	VRP233	347.5	337.5	
VRP178	323.6	313.6	VRP234	347.9	337.9	
VRP179	324.0	314.0	VRP235	348.4	338.4	
VRP180	324.5	314.5	VRP236	348.8	338.8	
VRP181	324.9	314.9	VRP237	349.2	339.2	
VRP182	325.3	315.3	VRP238	349.7	339.7	
VRP183	325.8	315.8	VRP239	350.1	340.1	
VRP184	326.2	316.2	VRP240	350.5	340.5	
VRP185	326.6	316.6	VRP241	351.0	341.0	
VRP186	327.1	317.1	VRP242	351.4	341.4	
VRP187	327.5	317.5	VRP243	351.8	341.8	
VRP188	327.9		VRP244		342.3	
	328.4	317.9		352.3		
VRP189		318.4	VRP245	352.7	342.7	
VRP190	328.8	318.8	VRP246	353.1	343.1	
VRP191	329.2	319.2	VRP247	353.6	343.6	
VRP192	329.7	319.7	VRP248	354.0	344.0	
VRP193	330.1	320.1	VRP249	354.4	344.4	
VRP194	330.5	320.5	VRP250	354.9	344.9	
VRP195	331.0	321.0	VRP251	355.3	345.3	
VRP196	331.4	321.4	VRP252	355.7	345.7	
VRP197	331.8	321.8	VRP253	356.2	346.2	
VRP198	332.3	322.3	VRP254	356.6	346.6	
VRP199	332.7	322.7	VRP255	357.0	347.0	
VRP200	333.2	323.2				
VRP201	333.6	323.6				
VRP202	334.0	324.0				
VRP203	334.5	324.5				
VRP204	334.9	324.9				
VRP205	335.3	325.3				
VRP206	335.8	325.8				
VRP207	336.2	326.2				
VRP208	336.6	326.6				
VRP209	337.1	327.1				
VRP210	337.5	327.5				
VRP211	337.9	327.9				
VRP212	338.4	328.4				
VRP213	338.8	328.8				
VRP214	339.2	329.2				
VRP215	339.7	329.7				
VRP216	340.1	330.1				
	340.5	330.5				
VRP217						
	341.0	331.0				
VRP217 VRP218						
VRP217 VRP218 VRP219	341.4	331.4				
VRP217 VRP218 VRP219 VRP220	341.4 341.8	331.4 331.8				
VRP217 VRP218 VRP219	341.4	331.4				

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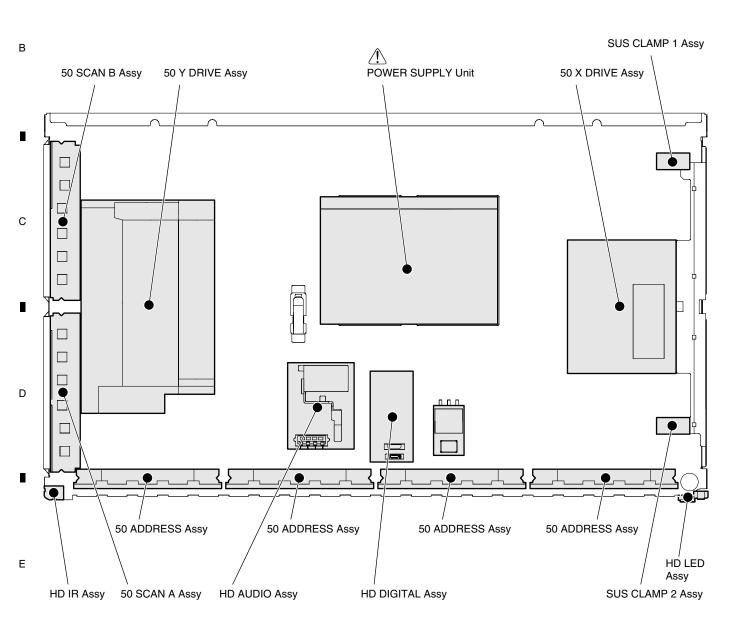
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## 7. GENERAL INFORMATION

## 7.1 DIAGNOSIS

## 7.1.1 PCB LOCATION



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## 7.1.2 DIAGNOSIS OF SHUTDOWN/POWER-DOWN INDICATED BY LEDS

## • Operation statuses indicated by LEDs

Status		LED Pattern						
Standby	1	Lit in Red	Blue Red					
Power ON	2	Lit in Blue	Blue Red					
AC Power OFF of one side	3	Red flashes (1000ms)	Blue Red	1000ms				
System cable disconnection	4	Red and blue flash (1000ms)	Blue Red	1000ms 1000ms				
Power-down	5	Red flashes (500+2500ms)	Blue Red	Once Twice 2.5s Once 500ms				
Shutdown	6	Blue flashes (500+2500ms)		500ms Once Twice Once 2.5s Once				
No backup copy	7	Lit in Red and blue flashes (200ms)	Blue Red	200ms				

: Lit in Red LED
: Lit in Blue LED

## • PD (power-down) count

1	Not used
2	POWER SUPPLY Unit
3	SCAN Assy
4	5V power supply for SCAN
5	Y-DRIVE (Not used)
6	DCDC for Y drive
7	Y-SUS
8	ADDRESS Assy
9	X-DRIVE
10	DCDC for X drive
11	X-SUS
12	Not used
13	Sequence drive stop
14	Not used
15	UNKNOWN

## • SD (shut down) count

1	SEQUENCE PROCESSOR (SQ_IC)
2	MDU-IIC
3	RST2 abnormality
4	Panel high temperature
5	Speaker short-circuit *

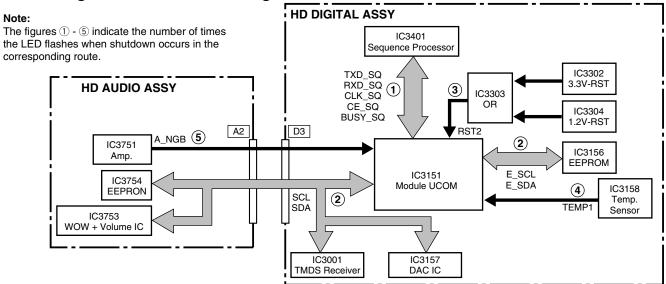
\* When a jumper (J105) between the HD AUDIO Assy and the POWER SUPPLY Unit is disconnected, the SD LED flashes five times in this manner.

### Note:

- When a shutdown occurs, a warning will be issued by the Media Receiver and displayed, then the power will be shut off.
- When a shutdown or power-down occurs on the Panel side, the Media Receiver will enter Standby mode (the red LED will light).

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## • Diagnosis of shutdown

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Number of flashes	SD Circuit in Operation	Defective Assy	Reason for Shutdown	Point to be Checked	Possible Defective Part	Remarks
			Communication failure of IC3401	SQ ASIC BLOCK, PANEL FLASH BLOCK	IC3401, IC3301	
1 time	Communication failure of the driving processor	HD DIGITAL	Writing failure of IC3401			Check if version data can be read, using the "GS1" command, after the power is turned on again.
		HD DIGITAL	Communication failure of the EEPROM (for	MODULE UCOM BLOCK	IC3156, IC3157	
			retaining 4-Kbyte of data)	TMDS BLOCK	IC3001	
2 times	Communication failure of the IIC line (Check the SD subcategory on	HD AUDIO	Communication failure of the EEPROM (2-kbyte : for backup)	AUDIO AMP BLOCK	IC3754	
	the Factory Menu.)		Disconnection of connectors	A2 - D3		Check if the connectors are disconnected or are not connected securely.
			Defective volume IC	HD AUDIO Assy	IC3753	
			Defective DC-DC converter	DIGITAL DD CON BLOCK	U3601	Check if 3.3-V and 1.2-V power supplies are activated.
3 times	Power failure of the driving		Defective RST IC	PANEL FLASH BLOCK	IC3302 - IC3304	
	processor (RST2)		Defective IC3401	SQ ASIC BLOCK	IC3401	
		POWER SUPPLY	The 8-V power supply is not activated.			Check if the 8-V power is supplied at Pin 1 of the D11 connector.
4 times	Abnormally high temperature of the panel		Abnormally high temperature of the panel	Ambient temperature		The Panel will be shut down if the sensor detects temperature of 75°C or higher (for the PDP-436P/-506P).
			Speakers' grounding fault	Speaker terminals		Check if the speaker cables are in contact with the chassis, etc.
5 times	5 times Audio failure	HD AUDIO	Defective AMP IC	HD AUDIO Assy	IC3751	
		HD AUDIO	Disconnection of connectors	A1 - P5		Check if the connectors are disconnected or are not connected securely.

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OVP : OVER VOLTAGE PROTECT UVP : UNDER VOLTAGE PROTECT

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## ■ Top screen of the Factory Menu for the main unit

MR INFORMATION

< MUTE > key

FUNC. CHECK

< MUTE > key

COMMON ADJ.

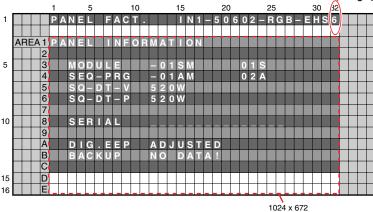
< MUTE > key
PANEL FACTORY

< SET > key

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**Top screen of the Panel Factory** 

If a Panel of Generation 6 is connected, "6" is indicated here.



**Note:** With this model, the structure of Factory mode has been changed, and all items related to the Panel are gathered into PANEL FACTORY mode.

**Note:** On-screen displays in Factory mode are indicated in white characters on a green background for the PDP-506HD/436HD and subsequent models.

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## **■** Configuration of Panel Factory mode

No.	Submode Name	Adjustable Range	Remarks
	Submode Items	Aujustable natige	nemarks
1	PANEL INFORMATION		
2	PANEL WORKS		
3	POWER DOWN		
4	SHUT DOWN		
5	PANEL-1 ADJ (+)		
5-1	X-SUS B <=>	120 to 136	Equivalent to XSB
5-2	Y-SUS B <=>	120 to 136	Equivalent to YSB
5-3	Y-SUSTAIL T <=>	120 to 136	Equivalent to YTG
5-4	Y-SUSTAIL W <=>	120 to 136	Equivalent to YTW
5-5	XY-RST W <=>	120 to 136	Equivalent to RSW
5-6	VOL SUS <=>	000 to 255	Equivalent to VSU
5-7	VOL OFFSET <=>	000 to 255	Equivalent to VOF
5-8	VOL RST P <=>	000 to 255	Equivalent to VRP
5-9	SUS FREQ. <=>	MODE1 to MODE8	Equivalent to SFR
6	PANEL-2 ADJ (+)		
6-1	R-HIGH <=>	000 to 511	Equivalent to PRH
6-2	G-HIGH <=>	000 to 511	Equivalent to PGH
6-3	B-HIGH <=>	000 to 511	Equivalent to PBH
6-4	R-LOW <=>	000 to 999	Equivalent to PRL
6-5	G-LOW <=>	000 to 999	Equivalent to PGL
6-6	B-LOW <=>	000 to 999	Equivalent to PBL
6-7	ABL <=>	000 to 255	Equivalent to ABL
7	PANEL REVISE		
7-1	R-LEVEL <=>	LV-0 to LV-7	Equivalent to RRL
7-2	G-LEVEL <=>	LV-0 to LV-7	Equivalent to RGL
7-3	B-LEVEL <=>	LV-0 to LV-7	Equivalent to RBL
8	ETC (+)		
8-1	BACKUP DATA <=>	NO OPRT<=>TRANSFER or ERR	Equivalent to BCP
8-2	DIGITAL EEPROM <=>	NO OPRT<=>DELETE/REPAIR	Equivalent to FAJ/UAJ
8-3	PD INFO. <=>	NO OPRT <=>CLEAR	Equivalent to CPD
8-4	SD INFO. <=>	NO OPRT <=>CLEAR	Equivalent to CSD
8-5	HR-MTR INFO. <=>	NO OPRT <=>CLEAR	Equivalent to CHM
8-6	PM/B1-B5 <=>	NO OPRT <=>CLEAR	Equivalent to CPM
8-7	P-COUNT INFO. <=>	NO OPRT <=>CLEAR	Equivalent to CPC
9	MASK SETUP (+)		
9-1	MASK OFF		Equivalent to MKS+S00
9-2	SGL MASK 01 <=>		Equivalent to MKS+S01
9-3	SGL MASK 02 <=>		Equivalent to MKS+S02
	• • •	<pre>&lt;=&gt;V48&lt;=&gt;V50&lt;=&gt;V60&lt;=&gt;P60&lt;=&gt;P70&lt;=&gt;V72&lt;=&gt;V75&lt;=&gt; (Select each sequence.)</pre>	•••
9-62	CMB MASK 08 <=>	- (05.00. 00011 000100.)	Equivalent to MKC+S08
9-63	CMB MASK 09 <=>	]	Equivalent to MKC+S09

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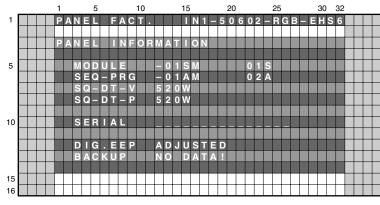
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### ■ Details on submodes related to the panel

The GUI display examples here are those displayed when the main unit is used with the 50-inch model.

### 1. PANEL INFORMATION



### ■ Key operation

<DOWN> : Shifting to PANEL WORKS <UP> : Shifting to MASK SETUP (+)

<SEL> : MASK ON/OFF

<L/R> : Updating displayed information

The version of the microcomputer of the panel, serial number of the main unit, adjustment values of the main unit, and backup status are displayed.

### 2. PANEL WORKS

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- The data from the pulse meter for each block from PM-B1 to PM-B5 are indicated. The values stored in the EEPROM (3 bytes each) are each converted into a decimal number, and the higher-order 8 digits are displayed (that means that the lowest-order digit represents millions).
- TEMP1: Indicates the temperature of the panel. By your pressing the L or R key, the temperature value can be updated.

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#### 3. POWER DOWN

#### ■ Key operation

<DOWN> : Shifting to SHUTDOWN <UP> : Shifting to PANEL WORKS

<SEL> : MASK ON/OFF

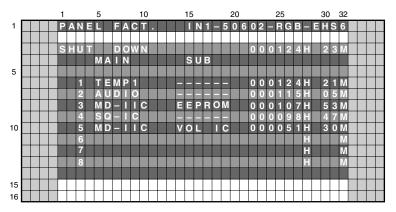
<L/R> : Updating displayed information

• Basically, data acquired with the command QPD are displayed in the columns "1ST" and "2ND, with the values from the hour meter when the power-down occurred.

#### <Causes of power-down and corresponding OSD indications>

Cause of power-down OSD Indication		Cause of power-down	OSD Indication	
POWER SUPPLY Unit	P-PWR	ADDRESS Assy	ADRS	
SCAN Assy	SCAN	X-DRIVE Assy	X-DRV	
5V power for SCAN	ower for SCAN SCN5V		X-DCDC	
Not used		X-SUS	X-SUS	
DCDC for Y drive Y-DCDC		Sequence drive stopped	SQ-NON	
Y-SUS	SUS Y-SUS		UNKNOW	

#### 4. SHUT DOWN



#### ■ Key operation

<DOWN> : Shifting to PANEL-2ADJ (+) <UP> : Shifting to POWER DOWN

<SEL> : MASK ON/OFF

<L/R> : Updating displayed information

• Basically, data acquired with the command QSD (for MDU-IIC, subcategory data are also displayed) are displayed with the values from the hour meter when the shutdown occurred.

#### <Causes of shutdown and corresponding OSD indications>

Cause of shutdown (main)	OSD Indication
SEQUENCE PROCESSOR	SQ-IC
MDU-IIC	MDU-IIC (with subcategory)
Abnormality in RST2	RST2
Panel having high temperature	TEMP1
Short-circuited speaker	AUDIO

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Cause of shutdown (sub)	OSD Indication
EEPROM	EEPROM (IC3156)
BACKUP	BACKUP (IC3754)
DAC	DAC (IC3302 to IC3304)
Audio IC	VOL-IC (IC3158)
DVI	DVI

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В

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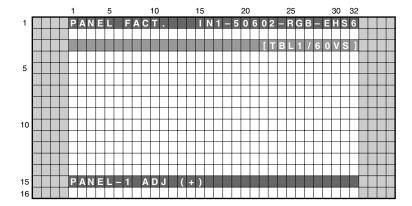
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#### 5. PANEL-1 ADJ

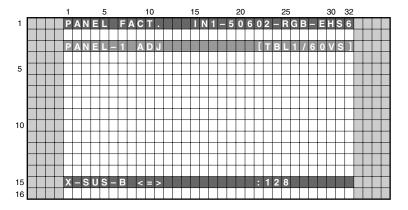
В



#### ■ Key operation

<DOWN> : Shifting to PANEL-2 ADJ (+) <UP> : Shifting to POWER DOWN <SET> : Shifting to the next nested layer

<SEL> : MASK ON/OFF



#### ■ Key operation

<DOWN> : Shifting to the next item <UP> : Shifting to the previous item <RIGHT> : Adding by one to the adjustment

value

<LEFT> : Subtracting by one from the

adjustment value

<VOL+> : Adding by 10 to the adjustment

value

<VOL-> : Subtracting by 10 from the

adjustment value

<SET> : Determining the adjustment value

and shifting to the upper layer

<SEL> : MASK ON/OFF

## <Drive-sequence indications and indications for the ABL/WB tables> (The OSD indications are displayed at the right part of the third line for submode PANEL-1 ADJ and subsequent submodes.)

Type of WR/ARL Tables		Type of Drive Sequences						
Type o	Type of WB/ABL Tables		Standard Video/MASK ON		Nonstandard Video		PC	
TBL1		48VS				60PS	Not used for consumer products	
TBL2		50VS		50VN		70PS		
TBL3		60VS		60VN				
TBL4		72VS	Only Mask indication					
		75VS		75VN				

#### <Lower-layer items of PANEL-1 ADJ>

No.	Items	Adjustment/Setting Value	Remarks
1	X-SUS B <=>	120 to 136	Equivalent to XSB
2	Y-SUS B <=>	120 to 136	Equivalent to YSB
3	Y-SUSTAIL T <=>	120 to 136	Equivalent to YTG
4	Y-SUSTAIL W <=>	120 to 136	Equivalent to YTW
5	XY-RST W <=>	120 to 136	Equivalent to RSW
6	VOL SUS <=>	000 to 255	Equivalent to VSU
7	VOL OFFSET <=>	000 to 255	Equivalent to VOF
8	VOL RST P <=>	000 to 255	Equivalent to VRP
9	SUS FREQ. <=>	<=>MODE1 to MODE8<=>	Equivalent to SFR

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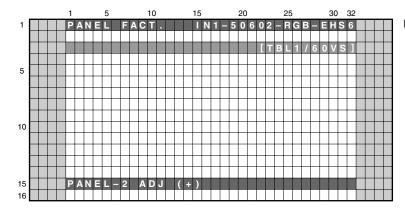
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#### 6. PANEL-2 ADJ

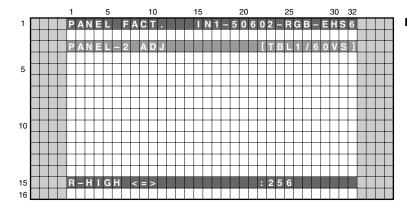


#### ■ Key operation

<DOWN> : Shifting to PANEL REVISE <UP> : Shifting to PANEL-1 ADJ (+)

<SEL> : MASK ON/OFF

<SET> : Shifting to the next nested layer



#### ■ Key operation

<DOWN> : Shifting to the next item
<UP> : Shifting to the previous item
<RIGHT> : Adding by one to the adjustment

value

<LEFT> : Subtracting by one from the

adjustment value

<VOL+> : Adding by 10 to the adjustment

value

<VOL-> : Subtracting by 10 from the

adjustment value

<SET> : Determining the adjustment value

and shifting to the upper layer

<SEL> : MASK ON/OFF

#### <Lower-layer items of PANEL-2 ADJ>

No.	Items	Adjustment/Setting Value	Remarks
1	R-HIGH <=>	000 to 511	Equivalent to PRH
2	G-HIGH <=>	000 to 511	Equivalent to PGH
3	B-HIGH <=>	000 to 511	Equivalent to PBH
4	R-LOW <=>	000 to 999	Equivalent to PRL
5	G-LOW <=>	000 to 999	Equivalent to PGL
6	B-LOW <=>	000 to 999	Equivalent to PBL
7	ABL <=>	000 to 255	Equivalent to ABL

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В

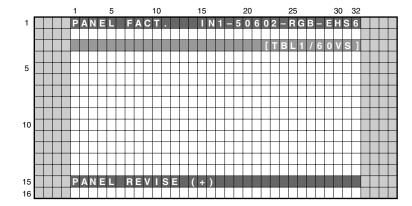
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#### 7. PANEL REVISE

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#### ■ Key operation

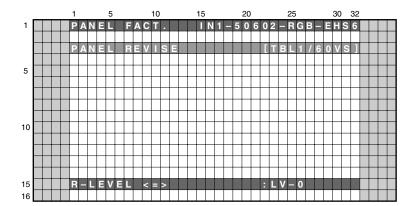
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<DOWN> : Shifting to ETC.(+)

<UP> : Shifting to PANEL-2 ADJ (+)

<SEL> : MASK ON/OFF

<SET> : Shifting to the next nested layer



#### ■ Key operation

<DOWN> : Shifting to the next item <UP> : Shifting to the previous item <RIGHT> : Adding by one to the adjustment

value

<LEFT> : Subtracting by one from the

adjustment value

<VOL+> : Adding by 10 to the adjustment

value

<VOL-> : Subtracting by 10 from the

adjustment value

<SET> : Determining the setting value

and shifting to the upper layer

<SEL> : MASK ON/OFF

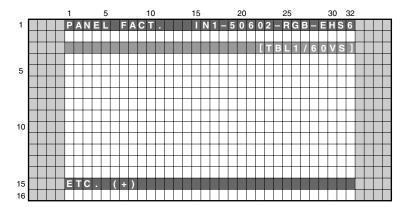
#### <Lower-layer items of PANEL REVISE>

No.	Items	Adjustment/Setting Value	Remarks	
1	R-LEVEL <=>	<=>LV-0 to LV-7<=>	Equivalent to RRL	
2	G-LEVEL <=>	<=>LV-0 to LV-7<=>	Equivalent to RGL	
3	B-LEVEL <=>	<=>LV-0 to LV-7<=>	Equivalent to RBL	

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#### 8. ETC.

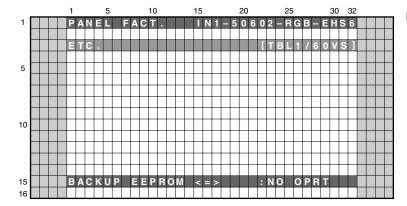


#### ■ Key operation

<DOWN> : Shifting to MASK SETUP (+) <UP> : Shifting to PANEL REVISE (+)

<SEL> : MASK ON/OFF

<SET> : Shifting to the next nested layer



#### ■ Key operation

<DOWN> : Shifting to the next item : Shifting to the previous item <RIGHT> : Adding by one to the adjustment

value

: Subtracting by one from the <LEFT>

adjustment value

<SET> : Determining the setting value

and shifting to the upper layer

<SEL> : MASK ON/OFF

#### <Lower-layer items of ETC.>

No.	Items	Adjustment/Setting Value	Remarks
1	BACKUP DATA <=>	<=>NO OPRT<=>TRANSFER<=>	"ERR" is indicated when no data are in the backup EEPROM. To activate the option to select TRANSFER, press the SET key about 5 seconds. (There is a situation resting more than 5 seconds.)
2	DIGITAL EEPROM <=>	<=>NO OPRT<=>REPAIR/DELETE<=>	"DELETE" is indicated when the main unit has been already adjusted. To activate the option to select REPAIR/DELETE, press the SET key about 5 seconds. (There is a situation resting more than 5 seconds.)
3	PD INFO. <=>	<=>NO OPRT<=>CLEAR<=>	
4	SD INFO. <=>	<=>NO OPRT<=>CLEAR<=>	To activate the option to select CLEAR, repeatedly
5	HR-MTR INFO. <=>	<=>NO OPRT<=>CLEAR<=>	press the SET key about 5 seconds.
6	PM/B1-B5 <=>	<=>NO OPRT<=>CLEAR<=>	(There is a situation resting more than 5 seconds.)
7	P-COUNT INFO. <=>	<=>NO OPRT<=>CLEAR<=>	

- "NO OPRT" is selected when this submode is entered (to avoid accidental misoperation).
- When each item is set, the process starts then the unit shifts to the upper layer. (When NO OPRT is determined, the unit will shift to the upper layer without doing anything.)
- When data are set to be backed up, if the digital EEPROM has not been adjusted, do the operation of LED pattern No. 7.

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В

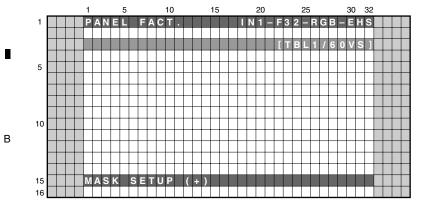
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#### 9. MASK SETUP

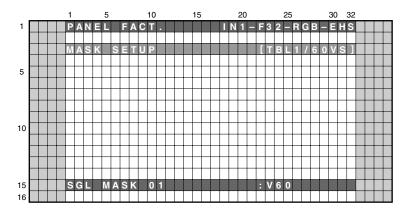


#### **■** Key operation

<DOWN> : Shifting to PANEL INFORMATION

<UP> : Shifting to ETC. (+) <SEL> : MASK ON/OFF

<SET> : Shifting to the next nested layer



#### **■** Key operation

<DOWN> : Shifting to the next MASK <UP> : Shifting to the previous MASK <RIGHT> : Changing MASK sequence (+) <LEFT> : Changing MASK sequence (-) <SET> : Determining the setting value

and shifting to the upper layer

<SEL> : MASK ON/OFF

#### <Lower-layer items of MASK SETUP>

No.	Items	Adjustment/Setting Value	Remarks
1	MASK OFF		Equivalent to MKS+S00
2	SGL MASK 01 <=>		Equivalent to MKS+S01
3	SGL MASK 02 <=>	  <=>48V<=>50V<=>60V<=>	Equivalent to MKS+S02
4	•••	60P<=>70P<=>72V<=>75V<=>	•••
5	CMB MASK 09 <=>		Equivalent to MKC+S08
6	CMB MASK 10 <=>		Equivalent to MKC+S09

• With the keys <LEFT> and <RIGHT>, the Panel drive sequence in the MASK indication is changed in the following way: <=>48V<=>50V<=>60V<=>72V<=>75V<=>60P<=>70P<=>

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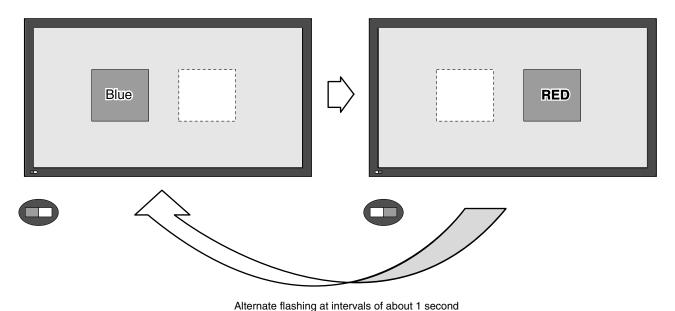
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#### 7.1.4 OPERATION WHEN THE MEDIA RECEIVER IS NOT CONNECTED

As the connection conditions of the system cables (MDR cable, DVI cable) are usually detected, if no connection, such as cable disconnection, is detected, a warning indication (alternate flashing of the red and blue areas) is displayed on the mask screen, and the red and green LEDs flash alternately. Then after about 30 seconds, the power is automatically turned off.



Alternate hashing at intervals of about 1 second

To operate the panel without the Media Receiver, there are the following two ways:

#### 1. Operation-without-the-Media-Receiver mode

Input the "SYS S00" RS232C command. The status of the LEDs changes to that in normal operation mode.

Note: Turning the AC switch to OFF then ON also maintains this mode. However, once the unit is connected with the Media Receiver using the System cable, this mode is automatically canceled.

#### 2. DVI mode

Turn the unit on while DVI SG signals are being input with only the DVI connecter connected. After a warning is displayed for about 5 seconds, the unit is ready to display the screen of the input signal. (Blue LED lit)

Notes: • Although the output from XGA (43 inch) and WXGA (50 inch) can be input to the unit, this is not a mode open to general users. (With some signals, errors such as power-down may occur.)

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#### 7.1.5 POWER ON/OFF FUNCTION FOR THE LARGE-SIGNAL SYSTEM

**Function:** To prevent a power-down from being generated, operation of only the digital-signal processing and audio circuits are enabled, and power is not supplied to the panel driving system (large-signal system).

**Usages:** 1. In a case where a check is required of signals' being correctly output to the driving systems during a repair, etc.

2. In a case where diagnosis is required for judging whether the power to the large-signal system or small-signal system has been down when a power-down occurred

Methods: 1. Short-circuit the points (see Fig. 4 below) on the face and on the reverse side of the HD DIGITAL Assy.

2. Issue the "DRV S00" RS-232C command. (Command for turning the function off: DRV S01)

**Notes:** • When the power to the large-signal system is off, as the PD signal is muted, power-downs other than PS\_PD are not activated.

• As soon as the clips are removed while the power to the large-signal system is off, a power-down will occur. Be sure to turn the power off before removing the clips.

• While this function is activated with RS-232C commands, it is possible to issue "DRV S01" (for turning the function off) while the power is on. However, as it may damage the unit, turn the power off before issuing the "DRV S01" command.

 Although the "DRV S00/S01" RS-232C commands are valid during Standby mode, once the main power is turned off, the unit will return to "DRV S01."

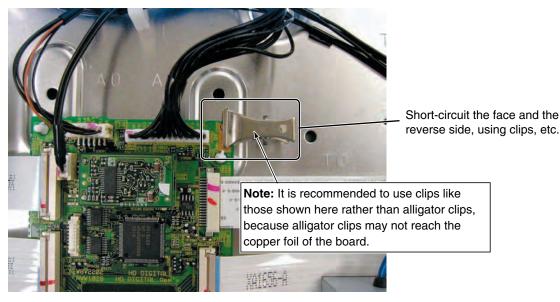


Fig. 4 Position of DRIVE OFF

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#### 7.1.6 BACKUP WHEN THE MAIN UNIT IS ADJUSTED

#### Outline

Adjustment data set at the factory are stored in the EEPROM (IC\*\*\*\*/4K) on the HD DIGITAL Assy. Those adjustment data are automatically backed up in the EEPROM (backup EEPROM: IC\*\*\*\*) on the HD AUDIO Assy. Therefore, even if the HD DIGITAL Assy is replaced, the adjustment data can be restored by copying the backup data, which enables you to omit newly performing adjustments on the main unit.

#### Data to be backed up

- Voltage margin adjustment values
- Data on the hour meter
- Upper limit of power-adjustment value
- Data on the pulse meter
- Panel WB adjustment values
- Serial number
- Drive waveform adjustment values
- Data of the P-ON counter
- PD/SD histories

#### How to copy the backup data

1. When the HD DIGITAL Assy is replaced with that for service (normal servicing) (In a case where no data are on the DIG. EEP, and backup data have been adjusted)

Command: "BCP" (Effective during FAY) Factory Menu

> PANEL INFORMATION ▼ (down) ▼ (down) ETC. (+) [set] BACKUP DATA: NO OPRT >> (right) BACKUP DATA: TRANSFER

[set] (Press and hold for 5 seconds.)

- After the HD DIGITAL Assv is replaced with that for service, check that "DIG. EEP: NO DATA!" is displayed on the Panel Information screen of the Factory Menu.
- If this command is not executed, the red LED lights, and the blue LED flashes, to warn you that copying of the backup adjustment data for the main unit failed.
- If both the HD DIGITAL Assy and HD AUDIO Assy are to be replaced, first replace the HD AUDIO Assy and set the unit to Standby mode. Then replace the HD DIGITAL Assy.

2. In a case where a HD DIGITAL Assy that was mounted on another unit is to be reused as a service part.

Command: "FAJ" (Effective during FAY)

Factory Menu: PANEL FACT => ETC => DIGITAL EEPROM: DELETE

PANEL INFORMATION ▼ (down) ▼ (down) ETC. (+) [set] BACKUP DATA: NO OPRT ▼ (down)

• If the HD DIGITAL Assy of Unit 1 is mounted to be reused in Unit 2 to be repaired, and Unit 2 enters Standby mode, the adjustment data and histories stored in Unit 1 are erased, and those of Unit 2 are copied. Once overwritten, the original data will not be restored. After the Assy is replaced, be sure to enter Factory mode, using the remote control unit for servicing, and perform the procedures described herein. Or, before mounting an Assy to be reused as a service Assy, perform these procedures then mount it on the product to be repaired.

DIGITAL EEPROM: NO OPRT >> (right)

DIGITAL EEPROM: REPAIR

[set] (Press and hold for 5 seconds.)

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3. In a case where the HD DIGITAL Assy is replaced with one for servicing because of a defective EEPROM on the original Assy and manual adjustments are to be performed (In a case where no data are stored in the HD DIGITAL Assy or as backup, and the values that have been manually adjusted on Service Menu are to be applied as adjustment data for the main unit) Command: "UAJ" (Effective during FAY) Factory Menu PANEL INFORMATION ▼ (down) В ▼ (down) ETC. (+) [set] BACKUP DATA: NO OPRT ▼ (down) DIGITAL EEPROM: NO OPRT >> (right) DIGITAL EEPROM: REPAIR [set] (Press and hold for 5 seconds.) • If the HD DIGITAL Assy with which adjustment data for the main unit have been copied is mounted, the above procedures are not necessary after manual adjustment. (The indication "DIGITAL EEPROM: REPAIR" will not be displayed.)

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#### 7

#### ■ Clearing data on various histories when the HD DIGITAL Assy is replaced

Other than adjustment data for the main unit, data to be backed up include the accumulated power-on time and a history of defective parts, which are data updated and stored in memory. Among those data, some are required to be cleared when the HD DIGITAL Assy is replaced for servicing, as shown below:

		Т	Type of servicing		
Item	Backed-up data	Panel replacement	Replacement of the power-supply block	Others	command
Hour meter	Accumulated display	To be cleared	Not to be cleared	Not to be cleared	СНМ
SD history	Point where an SD occurred and data on the hour meter	To be cleared	Not to be cleared	Not to be cleared	CSD
PD history	Point where a PD occurred and data on the hour meter	To be cleared	Not to be cleared	Not to be cleared	CPD
Pulse meter	Accumulated number of pulses of the Panel (5 blocks)	To be cleared (essential)	Not to be cleared	Not to be cleared	СРМ
Accumulated number of power-ons	Accumulated number of RELAY_ONs	Not to be cleared	To be cleared (essential)	Not to be cleared	CPC

#### Notes:

1: With the PDP-506P/436P and subsequent models, because various compensation functions use pulse-meter data for calculating compensation values, if related Assys are replaced, data on various histories must be cleared.

2: To clear data using RS-232C commands, after entering Factory mode (by sending FAY or PFY), issue a corresponding command. Otherwise, the command will not be executed.

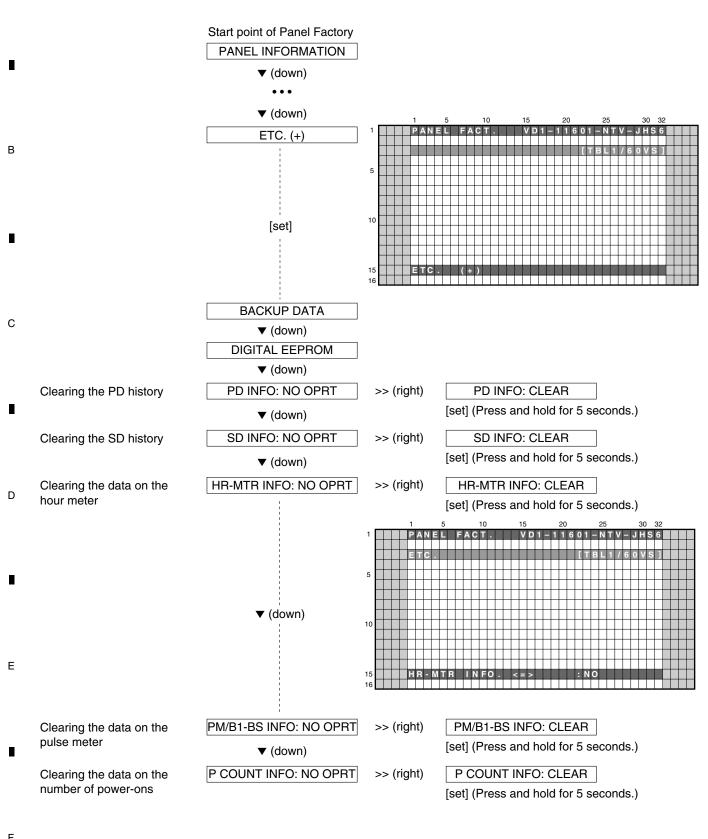
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#### ■ How to clear the history for each item on the Factory Menu



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**Note:** Even if the unit shown in the photos and illustrations in this manual may differ from your product, the procedures described here are common.

#### **1** Rear Case (506)

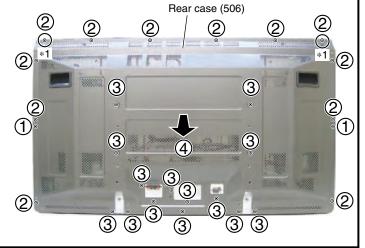
- (1) Remove the two screws.
- (2) Remove the tweleve screws.
- Remove the fourteen screws.

#### Note \*1:

When reassembling, first secure the screws for these holes to position the rear case (506) correctly.

The hole of a left side, the screw tighten the hole of the right side next first.

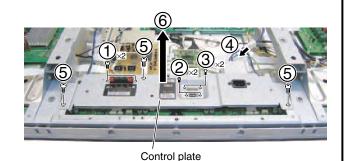
(4) Remove the rear case (506).

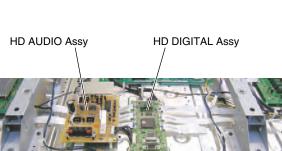




#### **2** Control Plate Section

- 1 Remove the two screws.
- (2) Remove the two screws.
- $\widehat{\mathbf{3}}$  Remove the two hexagon head screws.
- (4) Disconnect the connector.
- (5) Remove the three screws.
- (6) Remove the control plate.







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1 2 3 4

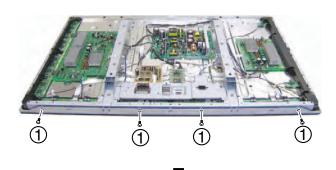
#### 3 Front Case Assy (506PE)

(1) Remove the four screw rivets.

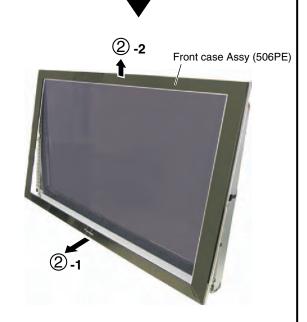
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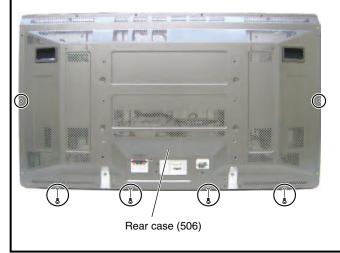
2 Remove the front case Assy (506PE).



#### When only the front case assy (506PE) is to be removed

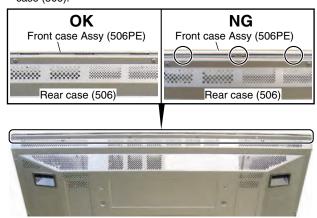
The front case assy (506PE) can be removed without removing the rear case (506) beforehand.

Remove the two screws and four screw rivets shown below:



#### Note when the front case assy (506PE) is to be reattached

- ① Hook the upper part of the Front Case Assy (506PE) on the upper part of the Front Panel, leaving a fist-sized gap between the bottom and the lower part of the Front Case Assy.
- ② Push the couplers of the Front Case Assy (506PE) into the rear case (506).
- 3 Make sure that all the couplers have been pushed into the rear case (506).





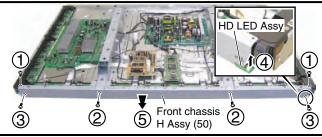
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**=** 



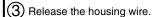
- 1 Remove the two screws.
- (2) Remove the two screws.
- (3) Remove the two screws.
- (4) Disconnect the connector.
- (5) Remove the front chassis H Assy (50).



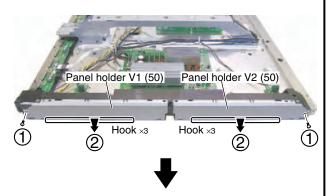


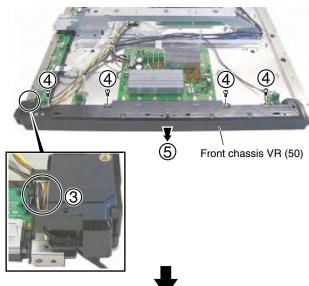
#### 5 SUS CLAMP 1 and 2 Assys

- 1 Remove the two screws.
- Remove the panel holder V1 (50) and V2 (50)s. (Unhook the six hooks.)

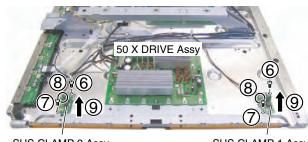


- 4 Remove the four screws.
- (5) Remove the front chassis VR (50).





- (6) Remove the two screws.
- (7) Remove the two screws.
- ig( 8 ig) Unhook the two PCB spacers.
- (9) Remove the SUS CLAMP 1 and 2 Assys.



SUS CLAMP 2 Assy

SUS CLAMP 1 Assy



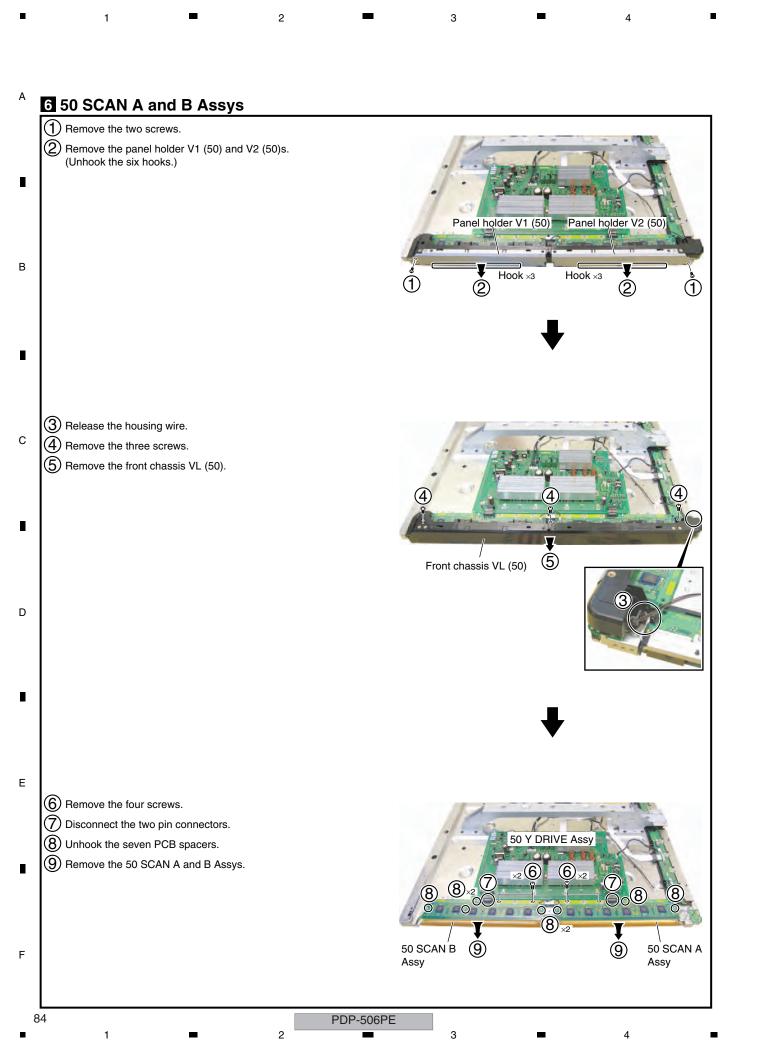
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7.2 IC

• The information shown in the list is basic information and may not correspond exactly to that shown in the schematic diagrams.

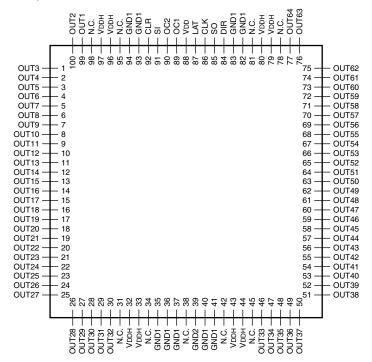
#### List of IC

AN16025A, TC7SH08FUS1, TC74VHC00FTS1, AXF1140, AXF1142, TC74VHC08FTS1, AXF1141, M62334FP, TC74VHC123AFTS1, PST3610UR, PEG122C, NJW1183L

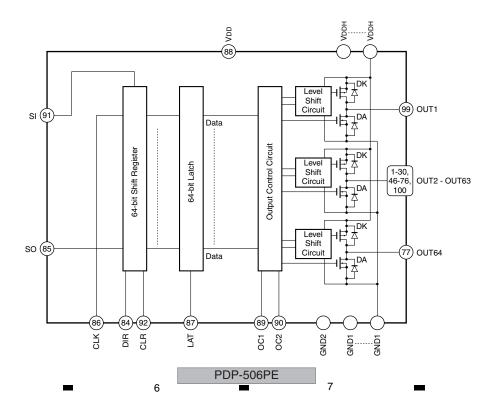
#### ■ AN16025A (50 SCAN A ASSY : IC2701 - IC2706) (50 SCAN B ASSY : IC2801 - IC2806)

• Plasma Display Panel IC

#### Pin Arrangement (Top view)



#### Block Diagram



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**■** 2 **■** 3 **■** 4

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С

#### • Pin Function

	No.	Pin Name	1/0	Pin Function			
Γ	1 - 30	OUT3 - OUT32	0	High-voltage push-pull output			
	31	N.C.	_	Not connected	Not connected		
	32 - 33	VDDH	_	High-voltage circuit supply			
F	34	N.C.	_	Not connected			
F	35 - 37	GND1	_	Ground			
	38	N.C.	_	Not connected			
	39	GND2	_	Ground			
	40 - 41	GND1	_	Ground			
Γ	42	N.C.	_	Not connected			
F	43 - 44	VDDH	_	High-voltage circuit supply			
Γ	45	N.C.	_	Not connected			
F	46 - 77	OUT33 - OUT64	0	High-voltage push-pull output			
F	78	N.C.	_	Not connected			
F	79 - 80	VDDH	_	High-voltage circuit supply			
F	81	N.C.	_	Not connected			
Γ	82 - 83	GND1	_	Ground			
	84	DIR	I	Setup of shift register shift direction L = Shift into reverse (SO $\rightarrow$ SI) H = Shift forward (SI $\rightarrow$ SO)			
r	85	SO	I/O	Serial data input / output			
r	86	CLK	I	Serial clock input Fetch SI or SO data to shift register by	/ CLK r	ise edg	je
	87	LAT	I	LAT data input L = Transfer shift register data to output latch H = Hold of	data to	output	latch
Γ	88	VDD	_	Logic supply			
Γ					OC1	OC2	OUT
1	89	OC1	I		L	L	ALL Hi-Z
L				Output control Control output according to the right	늗	Н	DATA
1				truth value table	뉴	L	ALL L
	90	OC2	I		┝╫	Н	ALL H
F					L''	11	ALLII
╁	91	SI	I/O	Serial data input / output			
F	92	CLR	I	All output reset CLR pin : L → Normal operation CLR p	oin : H -	→ All o	utput High
F	93 - 94	GND1	_	Ground			
$\perp$	95	N.C.	_	- Not connected			
	96 - 97	VDDH	_	High-voltage circuit supply			
-	98	N.C.	_	Not connected			
	99 - 100	OUT1 - OUT2	0	High-voltage push-pull output			

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2 ■ 3 ■ 4

#### ■ TC7SH08FUS1 (50 SCAN B ASSY : IC2807)

• 2-input AND Gate

5

• Pin Arrangement (Top view) / Block Diagram

# IN B 1 5 Vcc IN A 2 4 OUT Y

#### • Truth Table

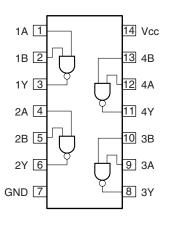
Α	В	Υ
L	L	L
L	Н	L
Н	L	L
Н	Н	Н

#### ■ TC74VHC00FTS1 (50 X DRIVE ASSY : IC1002)

• Quad 2-Input NAND Gate

5

Block Diagram



#### • Truth Table

Α	В	Υ
L	L	Н
L	Н	Н
Н	L	Н
Н	Н	L

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В

С

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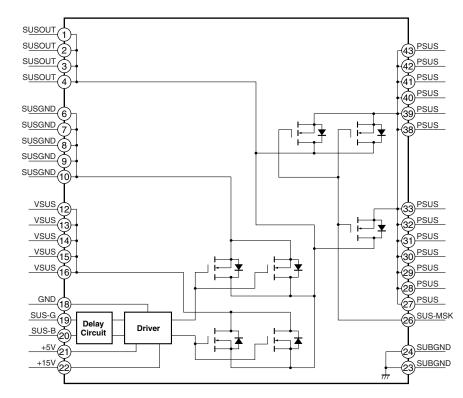
■ AXF1140 (50 X DRIVE ASSY : IC1202)

• X Mask Module

#### Block Diagram

В

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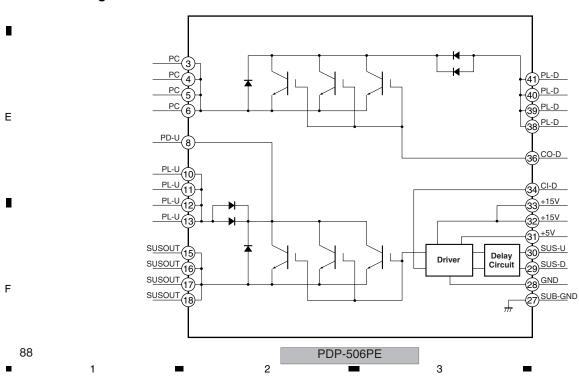


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#### ■ AXF1142 (50 X DRIVE ASSY : IC1101) (50 Y DRIVE ASSY : IC2101)

• DK Module

#### Block Diagram

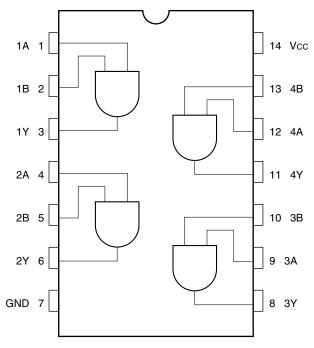


#### ■ TC74VHC08FTS1 (50 Y DRIVE ASSY : IC2003, IC2005)

• Quad 2-input AND Gate

5

#### • Pin Arrangement (Top view) / Block Diagram



#### • Truth Table

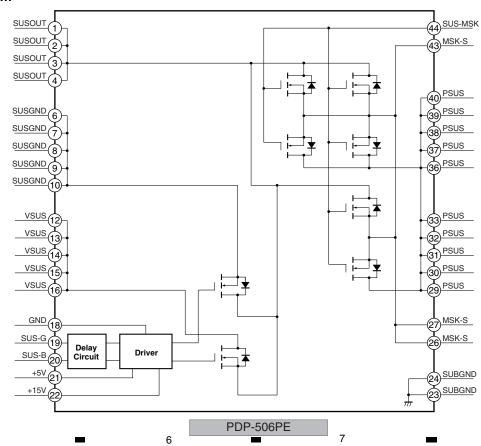
Α	В	Y
L	L	Ш
L	Н	L
Н	L	L
Н	Н	Н

#### ■ AXF1141 (50 Y DRIVE ASSY : IC2252, IC2253)

• Y Mask Module

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#### Block Diagram



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В

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#### ■ M62334FP (HD DIGITAL ASSY : IC3157)

• 8-bit 4ch I2C Bus D-A Converter with Buffer Amplifier

#### • Pin Arrangement (Top view)

# AO1 1 8 VCC AO2 2 7 SCL AO3 3 6 SDA AO4 4 5 GND

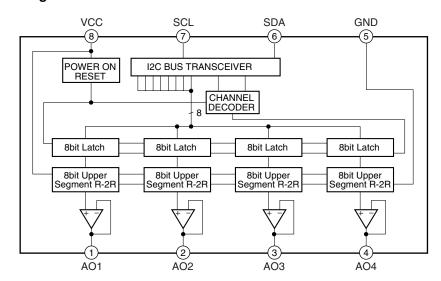
#### Pin Function

3

No.	Pin Name	Pin Function	
1	AO1		
2	AO2	O hit was allution D. A sourcetter suction t	
3	AO3	8-bit resolution D-A converter output	
4	AO4		
5	GND	Ground	
6	SDA	Serial data input	
7	SCL	Serial clock input	
8	vcc	Power supply	

#### Block Diagram

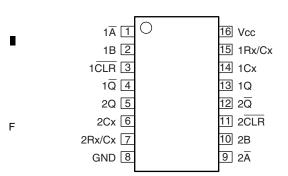
В



#### ■ TC74VHC123AFTS1 (HD DIGITAL ASSY : IC3160)

• Dual Monostable Multivibrator/AFN/AFT Retriggerble

#### • Pin Arrangement (Top view)



#### • Truth Table

	Inputs	i	Out	puts	Note
Ā	В	CLR	Q Q		Note
7_	Н	Н	11 11 (		Output enable
Х	L	Н	L	Н	Inhibit
Н	Х	Н	L	Н	Inhibit
L	<b>ا</b>	Н	7	T	Output enable
L	Η		J	П	Output enable
Х	Χ	Ĺ	Ĺ	Н	Reset

X: Don't care

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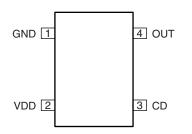
Ε

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# ■ PST3610UR (HD DIGITAL ASSY : IC3304) • Reset IC

#### • Pin Arrangement (Top view)

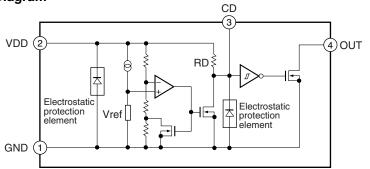
5



#### • Pin Function

No.	Pin Name	Pin Function
1	GND	Ground
2	VDD	Power supply / Voltage detection
3	CD	Capacitor connect pin for delay
4	OUT	Reset signal output

• Block Diagram



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В

С

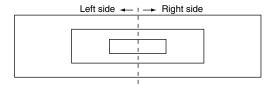
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PDP-506PE

■ PEG122C (HD DIGITAL ASSY : IC3401)
• LSI for PDP video processing (SEQUENCE PROCESSOR)

#### • Pin Arrangement (Top view)



TXOUTP023 TXCLKOUTP02 TXOUTP022

TXOUTP021

TXOUTP020

ΑE

#### • Left side (Top view)

•	en side	(TOP VI	ew)										
	1	2	3	4	5	6	7	8	9	10	11	12	13
Α	BAI5	GAI1	GAI4	GAI9	RAI4	RAI9	BBI0	BBI6	GBI1	GBI5	RBI1	RBI7	TRNSEND1
В	BAI4	GAI0	GND33	GAI8	RAI3	RAI8	HDI	BBI5	GBI0	GDN33	RBI0	RBI6	TRNSEND0
С	BAI3	BAI9	VDD33	GAI7	RAI2	RAI7	VDI	BBI4	BBI9	VDD33	GBI9	RBI5	VDD33
D	BAI2	BAI8	GAI3	GAI6	RAI1	RAI6	DEI	BBI3	BBI8	GBI4	GBI8	RBI4	RBI9
Ε	BAI1	BAI7	GAI2	GAI5	RAI0	RAI5	DCLKI	BBI2	BBI7	GBI3	GBI7	RBI3	RBI8
F	BAI0	BAI6	PEAK	APLDT	THEATER	GND12	VDD12	BBI1	VDD12	GBI2	GBI6	RBI2	VDD12
G	XSCAN20	XSCAN19	XSCAN18	XSCAN17	XSCAN16	VDD12					•		
н	XSCAN15	XSCAN14	XSCAN13	XSCAN12	XSCAN11	VDDTC12							
J	XSCAN10	GND33	VDD33	XSCAN9	GNDTC12	VDD12							
Κ	XSCAN8	XSCAN7	XSCAN6	XSCAN5	XSCAN4	VDDTC12							
L	XSCAN3	XSCAN2	XSCAN1	XSCAN0	GND12	VDD12					GND12	GND12	GND12
М	XSUS10	XSUS9	XSUS8	XSUS7	GNDTC12	VDD12					GND12	GND12	GND12
N	XSUS6	GND33	VDD33	XSUS5	GND12	VDD12					GND12	GND12	GND12
Р	XSUS4	XSUS3	XSUS2	XSUS1	XSUS0	VDDTC12					GND12	GND12	GND12
R	ADRS0	ADRS1	ADRS2	ADRS3	GNDTC12	VDD12					GND12	GND12	GND12
Т	TEST_I0	GND33	VDD33	TEST_I1	TEST_I2	TEST_R					GND12	GND12	GND12
U	TXOUTM063	TXOUTP063	GNDLA	VDDLA	GNDLA	VDDL12							
٧	TXCLKOUTM06	TXCLKOUTP06	GNDLA	VDDLA	GNDLA	VDDLA							
W	TXOUTM062	TXOUTP062	GNDLA	VDDLA	GNDLA	VDDLA							
Υ	TXOUTM061	TXOUTP061	GNDLA	VDDLA	GNDLA	VDDL12							
AA	TXOUTM060	TXOUTP060	GNDLA	VDDLA	VDDLA	VDDLA	VDDLA	VDDL12	VDDLA	VDDLA	VDDL12	VDDLA	VDDLA
AB	TXOUTM073	TXOUTP073	GNDLA	VDDLA	GNDLA	GNDLA	GNDLA	GNDLA	GNDLA	GNDLA	GNDLA	VDDBG	REFIN
AC	TXCLKOUTM07	TXCLKOUTP07	GNDLA	VDDLA	VDDLA	VDDLA	VDDLA	VDDLA	VDDLA	VDDLA	VDDLA	VDDLA	VDDLA
AD	TXOUTM072	TXOUTP072	GNDLA	GNDLA	GNDLA	GNDLA	GNDLA	GNDLA	GNDLA	GNDLA	GNDLA	GNDLA	GNDLA
												1	1

TXOUTP031 TXOUTP030

TXOUTM033 TXCLKOUTM03 TXOUTM032 TXOUTM031 TXOUTM030 TXOUTM023 TXCLKOUTM02 TXOUTM022

#### • Right side (Top view)

TXOUTM070 TXOUTP070

TXOUTP071

GNDLA

TXOUTM071

	14	15	16	17	18	19	20	21	22	23	24	25	26
Α	CLKD	VSSPA	EXDI011	EXDI09	EXA4	EXA10	EXA2	EXA16	EXA20	CSCS_N1	CSCS_N2	CSIOSCK1	CSIORXD
В	CSRD_N	VCCPA	EXDI04	GND33	EXA3	EXA9	EXA1	EXA15	EXA19	CSCS_N0	GND33	TCRAM_MONITOR0	TCRAM_MONITOR
С	CLKS	CLK_MONI	EXDI012	VDD33	EXDI00	EXA8	CSWR_N	EXA14	EXA18	UARTRXD	VDD33	TCRAM_MONITOR2	CSIORQ
D	VSSPB	EXDI014	EXDI05	EXDI02	EXDI08	EXA7	EXA0	EXA13	EXA17	UARTTXD	CS10TXD	RESETX	SDIJTAG
Е	VCCPB	EXDI07	EXDI013	EXDI010	EXDI01	EXA6	EXA11	EXA12	CSEXWAIT_N	SDITRST_N	SDITCK	SDIDBI_N	SDITMS
F	LPFMONI	EXDI015	EXDI06	EXDI03	VDD12	EXA5	VDD12	GND12	SDITDO	SDITDI	GP1000	GPI001	GPI002
G								VDD12	GPI003	GPI004	GPI005	GPI006	GPI007
Н								VDDTC12	YSCAN20	YSCAN19	YSCAN18	YSCAN17	YSCAN16
J								VDD12	GNDTC12	YSCAN15	VDD33	GND33	YSCAN14
Κ								VDDTC12	YSCAN13	YSCAN12	YSCAN11	YSCAN10	YSCAN9
L	GND12	GND12	GND12	]				VDD12	GND12	YSCAN8	YSCAN7	YSCAN6	YSCAN5
М	GND12	GND12	GND12	1				VDD12	GNDTC12	YSCAN4	YSCAN3	YSCAN2	YSCAN1
N	GND12	GND12	GND12	1				VDD12	GND12	YSCAN0	VDD33	GND33	VSUS10
Р	GND12	GND12	GND12	1				VDDTC12	YSUS9	YSUS8	YSUS7	YSUS6	VSUS5
R	GND12	GND12	GND12	1				VDD12	GNDTC12	YSUS4	YSUS3	YSUS2	VSUS1
Т	GND12	GND12	GND12	1				YSUS0	RSV1	RSV0	VDD33	GND33	AFE_PS_N
U		•						VDDL12	GNDLA	VDDLA	GNDLA	TXOUTP050	TXOUTM050
٧								VDDLA	GNDLA	VDDLA	GNDLA	TXOUTP051	TXOUTM051
W								VDDLA	GNDLA	VDDLA	GNDLA	TXOUTP052	TXOUTM052
Υ								VDDL12	GNDLA	VDDLA	GNDLA	TXCLKOUTP05	TXCLKOUTM
۱A	VDDLA	VDDLA	VDDL12	VDDLA	VDDLA	VDDL12	VDDLA	VDDLA	VDDLA	VDDLA	GNDLA	TXOUTP053	TXOUTM053
۱В	VREF12	GNDBG	GNDLA	GNDLA	GNDLA	GNDLA	GNDLA	GNDLA	GNDLA	VDDLA	GNDLA	TXOUTP040	TXOUTM040
٩C	VDDLA	VDDLA	VDDLA	VDDLA	VDDLA	VDDLA	VDDLA	VDDLA	VDDLA	VDDLA	GNDLA	TXOUTP041	TXOUTM041
۱D	GNDLA	GNDLA	GNDLA	GNDLA	GNDLA	GNDLA	GNDLA	GNDLA	GNDLA	GNDLA	GNDLA	TXOUTP042	TXOUTM042
٩E	TXOUTP013	TXCLKOUTP01	TXOUTP012	TXOUTP011	TXOUTP010	TXOUTP003	TXCLKOUTP00	TXOUTP002	TXOUTP001	TXOUTP000	GNDLA	TXCLKOUTP04	TXCLKOUTMO
٩F	TXOUTM013	TXCLKOUTM01	TXOUTM012	TXOUTM011	TXOUTM010	TXOUTM003	TXCLKOUTM00	TXOUTM002	TXOUTM001	TXOUTM000	GNDLA	TXOUTP043	TXOUTM043

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TXOUTP033 TXCLKOUTP03 TXOUTP032

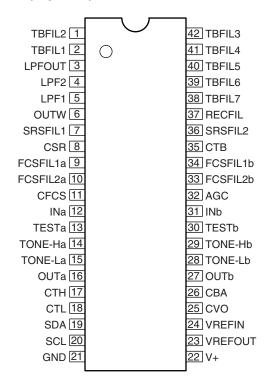
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#### ■ NJW1183L (HD AUDIO ASSY: IC3753)

• FOCUS & SRS IC

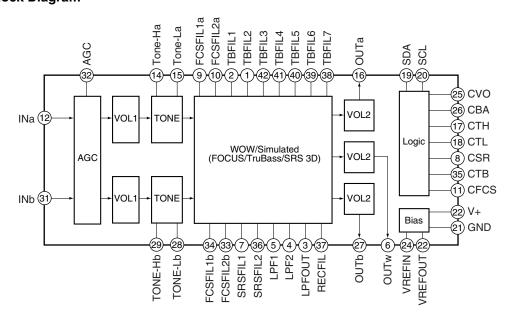
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#### Pin Arrangement (Top view)



#### Block Diagram

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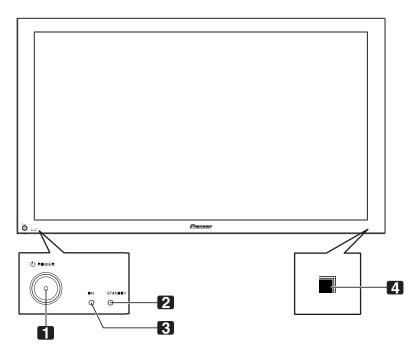
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#### 8. PANEL FACILITIES

#### Front view



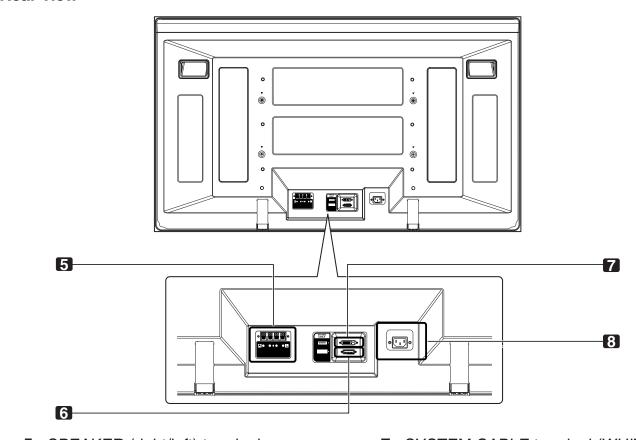
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- 1 POWER button
- 2 STANDBY indicator

- 3 POWER ON indicator
- 4 Remote control sensor

#### Rear view

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- 5 SPEAKER (right/left) terminals
- 6 SYSTEM CABLE terminal (BLACK)
- **7** SYSTEM CABLE terminal (WHITE)
- 8 AC IN terminal

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#### **■** Jigs list

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Jig No.	Jig Name	Remarks	
GGF1475	Special Communication Device	See to "6.2 RS-232C COMMAND".	

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PDP-506PE

### Pioneer sound.vision.soul

# Service Manual



ORDER NO. ARP3279

**MEDIA RECEIVER** 

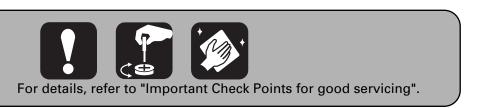
# PDP-R06U PRO-R06U

#### THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Model	Туре	Power Requirement	Remarks
PDP-R06U	KUCXJ	AC 120V	
PRO-R06U	KUCXJ	AC 120V	

#### This service manual should be used together with the following manual(s).

Model No.	Order No.	Remarks
PDP-R06U, PRO-R06U	ARP3280	SCHEMATIC DIAGRAM, PCB CONNECTION DIAGRAM



PIONEER CORPORATION 4-1, Meguro 1-chome, Meguro-ku, Tokyo 153-8654, Japan PIONEER ELECTRONICS (USA) INC. P.O. Box 1760, Long Beach, CA 90801-1760, U.S.A. PIONEER EUROPE NV Haven 1087, Keetberglaan 1, 9120 Melsele, Belgium PIONEER ELECTRONICS ASIACENTRE PTE. LTD. 253 Alexandra Road, #04-01, Singapore 159936 © PIONEER CORPORATION 2005

#### SAFETY INFORMATION



This service manual is intended for qualified service technicians; it is not meant for the casual do-ityourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.

Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

#### WARNING

This product contains lead in solder and certain electrical parts contain chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm.

Health & Safety Code Section 25249.6 - Proposition 65

#### NOTICE

(FOR CANADIAN MODEL ONLY)

Fuse symbols - (fast operating fuse) and/or - (slow operating fuse) on PCB indicate that replacement parts must be of identical designation.

#### **REMARQUE**

(POUR MODÈLE CANADIEN SEULEMENT)

Les symboles de fusible - (fusible de type rapide) et/ou - (fusible de type lent) sur CCI indiquent que les pièces de remplacement doivent avoir la même désignation.

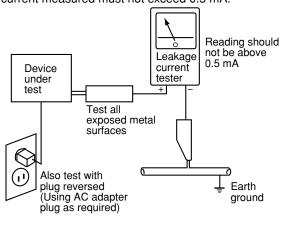
#### (FOR USA MODEL ONLY)

#### 1. SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

#### LEAKAGE CURRENT CHECK

Measure leakage current to a known earth ground (water pipe, conduit, etc.) by connecting a leakage current tester such as Simpson Model 229-2 or equivalent between the earth ground and all exposed metal parts of the appliance (input/output terminals, screwheads, metal overlays, control shaft, etc.). Plug the AC line cord of the appliance directly into a 120V AC 60 Hz outlet and turn the AC power switch on. Any current measured must not exceed 0.5 mA.



AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS **OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL** SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

#### 2. PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in the appliance have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a  $\triangle$  on the schematics and on the parts list in this Service Manual.

The use of a substitute replacement component which does not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

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PDP-R06U

In this manual, procedures that must be performed during repairs are marked with the below symbol.

Please be sure to confirm and follow these procedures.

#### Product safety



Please conform to product regulations (such as safety and radiation regulations), and maintain a safe servicing environment by following the safety instructions described in this manual.

① Use specified parts for repair.

Use genuine parts. Be sure to use important parts for safety.

2 Do not perform modifications without proper instructions.

Please follow the specified safety methods when modification(addition/change of parts) is required due to interferences such as radio/TV interference and foreign noise.

3 Make sure the soldering of repaired locations is properly performed.

When you solder while repairing, please be sure that there are no cold solder and other debris. Soldering should be finished with the proper quantity. (Refer to the example)

4 Make sure the screws are tightly fastened.

Please be sure that all screws are fastened, and that there are no loose screws.

5 Make sure each connectors are correctly inserted.

Please be sure that all connectors are inserted, and that there are no imperfect insertion.

6 Make sure the wiring cables are set to their original state.

Please replace the wiring and cables to the original state after repairs. In addition, be sure that there are no pinched wires, etc.

Make sure screws and soldering scraps do not remain inside the product.

Please check that neither solder debris nor screws remain inside the product.

® There should be no semi-broken wires, scratches, melting, etc. on the coating of the power cord.

Damaged power cords may lead to fire accidents, so please be sure that there are no damages. If you find a damaged power cord, please exchange it with a suitable one.

9 There should be no spark traces or similar marks on the power plug.

When spark traces or similar marks are found on the power supply plug, please check the connection and advise on secure connections and suitable usage. Please exchange the power cord if necessary.

10 Safe environment should be secured during servicing.

When you perform repairs, please pay attention to static electricity, furniture, household articles, etc. in order to prevent injuries. Please pay attention to your surroundings and repair safely.

#### 2. Adjustments



To keep the original performance of the products, optimum adjustments and confirmation of characteristics within specification. Adjustments should be performed in accordance with the procedures/instructions described in this manual.

#### 3. Lubricants, Glues, and Replacement parts



Use grease and adhesives that are equal to the specified substance. Make sure the proper amount is applied.

#### 4. Cleaning



For parts that require cleaning, such as optical pickups, tape deck heads, lenses and mirrors used in projection monitors, proper cleaning should be performed to restore their performances.

#### 5. Shipping mode and Shipping screws

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To protect products from damages or failures during transit, the shipping mode should be set or the shipping screws should be installed before shipment. Please be sure to follow this method especially if it is specified in this manual.

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	3.1 OVERALL BLOCK DIAGRAM	
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-	3.4 POWER SUPPLY SIGNAL ROUTE	
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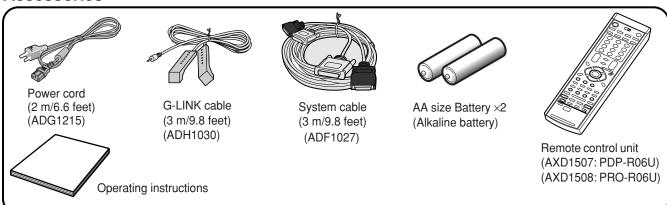
#### 1. SPECIFICATIONS

Item			Media Receiver, Model: PDP-R06U		
Reception Sy	/stem (Digital)		ATSC Digital TV system		
	Circuit type		8VSB/64QAM/256QAM/QPSK demodulation		
	Tuner	VHF/UHF	VHF Ch. 2-13 UHF Ch. 14-69		
		CATV	Ch. 2-135		
	Audio format		Dolby Digital		
Reception Sy	/stem (Analog)		American TV standard NTSC system		
	Circuit type		Video signal detection PLL full synchronous detection, PLL digital synthesizer system		
	Tuner	VHF/UHF	VHF Ch. 2-13 UHF Ch. 14-69		
		CATV	ANT/CABLE A IN Ch. 1-135 ANT B IN Ch. 1-125		
	Audio multiplex		BTSC system		
Terminals	Rear	ANT/CABLE A IN	75 $\Omega$ UNBAL, F Type for DTV/VHF/UHF/CATV in		
		ANT B IN	75 Ω UNBAL, F Type for VHF/UHF/CATV in Loop out		
		i.LINK (TS)	S400 (2)		
		INPUT 1	COMPONENT VIDEO in, S-VIDEO in, VIDEO in, AUDIO in, HDMI in*		
		INPUT 2	S-VIDEO in, VIDEO in, AUDIO in		
		INPUT 3	COMPONENT VIDEO in, AUDIO in, HDMI in *		
		MONITOR OUT	VIDEO out, AUDIO out		
		Digital Audio Output	Optical (1)		
		G-LINK	1		
		CONTROL IN	1		
		CONTROL OUT	1		
		SUB WOOFER OUTPUT	Variable		
		Cable CARD	Point of Deployment		
	Front	INPUT 4	COMPONENT VIDEO in, S-VIDEO in, VIDEO in, AUDIO in (Audio input is shared with PC INPUT.)		
		PC	Analog RGB in, AUDIO in		
On-screen display languages			English/French/Spanish		
Power Requi	rement		120 V AC, 60 Hz, 35 W (26 W Standby)		
Dimensions			420 (W) × 90 (H) × 299 (D) mm (16 9/16 (W) × 3 9/16 (H) × 11 13/16 (D) inches)		
Weight			4.5 kg (9.9 lbs.)		

\*: This conforms to HDMI1.1 and HDCP1.1. HDMI (High Definition Multimedia Interface) is a digital interface that handles both video and audio using a single cable. HDCP (High-bandwidth Digital Content Protection) is a technology used to protect copyrighted digital contents that use the Digital Visual Interface (DVI).

• Design and specifications are subject to change without notice.

#### **Accessories**



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#### 2. EXPLODED VIEWS AND PARTS LIST

NOTES: ● Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.

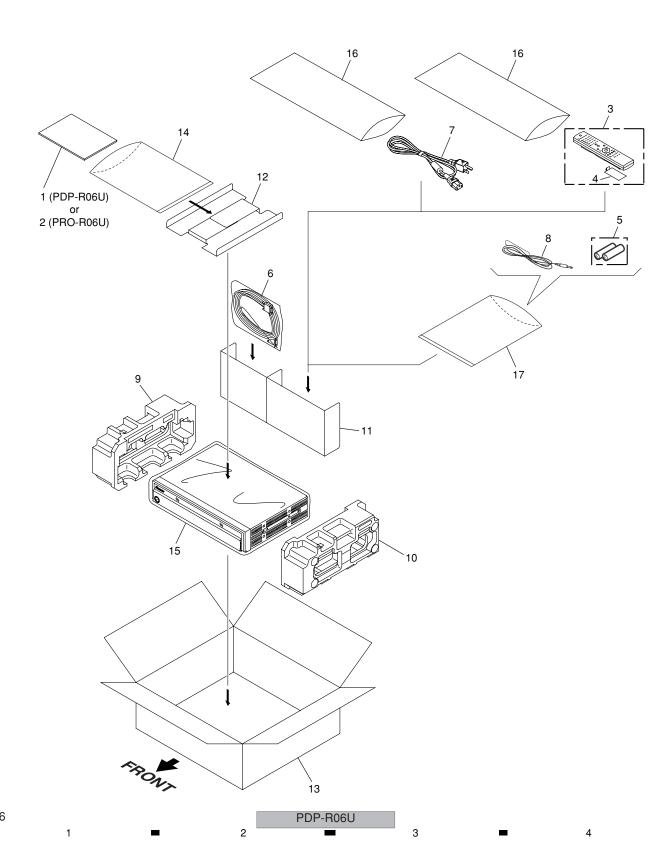
- The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Screws adjacent to ▼ mark on product are used for disassembly.
- For the applying amount of lubricants or glue, follow the instructions in this manual. (In the case of no amount instructions, apply as you think it appropriate.)

#### 2.1 PACKING SECTION

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#### (1) PACKING SECTION PARTS LIST

Mark	<u>No.</u>	<u>Description</u>	Part No.
	1	Operating Instructions (English, French, Spanish)	See Contrast table (2)
	2	Operating Instructions (English)	See Contrast table (2)
	3	Remote Control Unit	See Contrast table (2)
	4	Battery Cover	AZA7424
NSP	5	Dry Cell Battery (R6P, AA)	VEM1023
	6	System Cable (3m)	ADF1027
<u> </u>	7	Power Cord	ADG1215
	8	G-LINK Cable (3m)	ADH1030
	9	Pad L	AHA2447
	10	Pad R	AHA2448
	11	Accessory Carton M	AHD3423
	12	Manual Case	AHD3428
	13	Carton	See Contrast table (2)
NSP	14	Catalogue Bag	AHG1340
	15	Laminate Sheet	AHG1350
	16	Air Cap Bag	AHG1351
NSP	17	Catalogue Bag	AHG1374

(2) CONTRAST TABLE PDP-R06U/KUCXJ and PRO-R06U/KUCXJ are constructed the same except for the following:

Mark	No.	Symbol and Description	PDP-R06U/KUCXJ	PRO-R06U/KUCXJ
	1	Operating Instructions (English, French, Spanish)	ARE1399	Not used
	2	Operating Instructions (English)	Not used	ARB1567
	3	Remote Control Unit	AXD1507	AXD1508
	13	Carton U	AHD3448	Not used
	13	Carton UE	Not used	AHD3447

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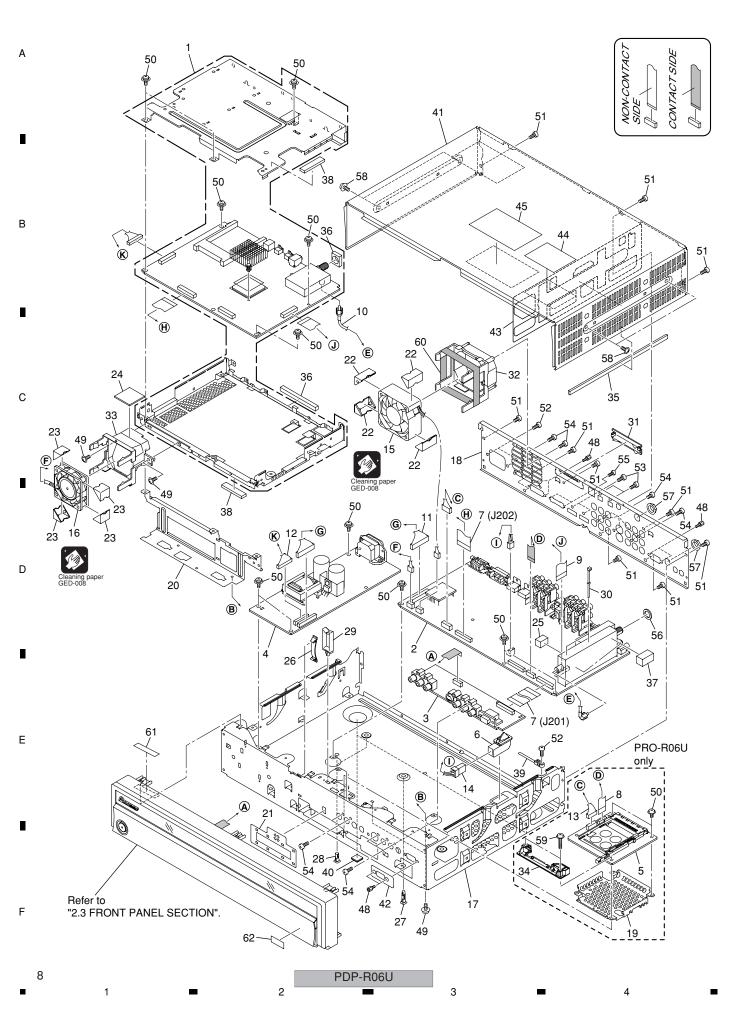
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PDP-R06U

#### 2.2 EXTERIOR SECTION



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` '		RIOR SECTION PARTS		Moule No.	Description	Down No.	
<u>Mark</u>	No.	<u>Description</u>	Part No.	Mark No.	<u>Description</u>	Part No.	
<u> </u>	1	MR DTB Assy	AWE1305	46	Label	See Contrast table (2)	
<u> </u>	2	MR MAIN Assy	See Contrast table (2)	47	••••		,
	3	FRONT Assy	See Contrast table (2)	48	Hex Head Screw	BBA1051	
<u> </u>	4	POWER SUPPLY Unit	AXY1113	49	Screw	ABZ30P060FTC	
	5	PC CARD Module	See Contrast table (2)	50	Screw	BBB30P080FTC	
	6	Power Switch (S1)	ASG1089	51	Screw	BBZ30P060FTB	
	7	Flexible Cable (J201)(J202)	ADD1311	52	Screw	BBZ30P100FTC	
	8	Flexible Cable (J206)	See Contrast table (2)	53	Screw	BMZ30P060FTC	
	9	Flexible Cable (J205)	ADD1317	54	Screw	BPZ30P080FTB	
	10	Antenna Cable (0.19m)	ADE1194	55	Screw	PMZ26P060FTB	
	11	16P Housing Wire (J101)	ADX3140	56	Washer	ABE1080	
	12	12P Housing Wire (J102)	ADX3141	57	Nut	BBN1005	
	13	6P Housing Wire (J103)	See Contrast table (2)	58	Screw	See Contrast table (2)	
	14	3P Housing Wire (J106)	ADX3143	59	Screw	See Contrast table (2)	
<u> </u>	15	Fan Motor (60 x 25L)	AXM1047	60	TERAOKA No.570F 16mm(W)	GYH1001	
<u> </u>	16	Fan Motor (52 x 15L)	AXM1051	61	SW Caution	See Contrast table (2)	
	17	Base Chassis	ANA1872	62	TV Guide Label	AAX3210	
	18	Terminal Panel	See Contrast table (2)				
<u> </u>	19	PC Shield	See Contrast table (2)				
	20	Frame B	ANG2781				
<u> </u>	21	Shield Plate	ANG2838				
	22	Floating Rubber 60	AEB1410				
	23	Floating Rubber 50	AEB1418				
	24	Cushion Rubber	AEB1428				
	25	Cushion Rubber	AEB1433				
	26	Flat Clamp	AEC1858				
	27	Circuit Board Spacer	AEC1969				
	28	Circuit Board Spacer	AEC2028				
	29	Re-used Wire Saddle	AEC2038				
	30	Cable Tie	AEC2078				-
	31	Rear Cover	AMR3425				
	32	Fan Holder 60	AMR3451				
	33	Fan Holder 50	AMR3456				
	34	PC Guide	See Contrast table (2)				
<u> </u>	35	Gasket S	ANK1784				
	36	Gasket	ANK1788				
	37	Gasket	ANK1791				
	38	Gasket	ANK1793				
	39	Jumper Band	BEC1228				
	40	Rubber Foot	VEB1349				
	41	Metal Bonnet	See Contrast table (2)				
	42	Cover Sheet	See Contrast table (2)				
	43	Side Cover Sheet	See Contrast table (2)				
	11	Caution Label	See Contract table (2)				

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43 Side Cover Sheet Caution Label

Caution Label

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See Contrast table (2) See Contrast table (2)

(2) CONTRAST TABLE PDP-R06U/KUCXJ and PRO-R06U/KUCXJ are constructed the same except for the following:

	Mark	No.	Symbol and Description	PDP-R06U/KUCXJ	PRO-R06U/KUCXJ
Α	<u> </u>	2	MR MAIN Assy	AWV2225	AWV2223
		3	FRONT Assy	AWW1046	AWW1044
		5	PC CARD Module	Not used	AXY1073
		8	Flexible Cable (J206)	Not used	ADD1313
		13	6P Housing Wire (J103)	Not used	ADX3142
		18	Terminal Panel U	ANC2383	Not used
		18	Terminal Panel UE	Not used	ANC2376
	<u> </u>	19	PC Shield	Not used	ANG2578
		34	PC Guide	Not used	AMR3468
		41	Metal Bonnet	ANE1653	ANE1652
В					
		42	Cover Sheet	Not used	AAK2850
		43	Side Cover Sheet	Not used	AAK2851
		44	Caution Label (U)	AAX3282	Not used
		44	Caution Label (UE)	Not used	AAX3279
		45	Caution Label	Not used	AAX3239
		46	Label	Not used	AAX3247
		58	Screw	ABZ30P060FTC	ABZ30P060FTB
		59	Screw	Not used	ABZ30P180FTC
		61	Power SW Caution U	AAX3249	Not used
С		61	Power SW Caution UE	Not used	AAX3280

5 В С D Ε 11 PDP-R06U 5

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PDP-R06U

# (1) FRONT PANEL SECTION PARTS LIST

Mark	No.	<u>Description</u>	Part No.
	1	LED Assy	AWW1045
	2	Flexible Cable (J207)	ADD1314
<u> </u>	3	Earth Metal	BNG1336
	4	Front Panel Assy	See Contrast table (2)
	5	Magnet Catcher	See Contrast table (2)
	6	Magnet Holder Assy	AEC1077
	7	Gear Damper	AXA1019
	8	Screw (2 x 3.5)	See Contrast table (2)
	9	Screw	BPZ30P080FTB
	10	Indicator Panel	See Contrast table (2)
	11	Door	See Contrast table (2)
	12	Front Panel	See Contrast table (2)
	13	Escutcheon Ring	See Contrast table (2)
NSF	14	Power Button	See Contrast table (2)
NSF	<sup>2</sup> 15	Operation Button	AAD4140
	16	Sealing Sheet	See Contrast table (2)
	17	Pioneer Name Plate	See Contrast table (2)
	18	Door Cushion	See Contrast table (2)
	19	Door Cushion S	See Contrast table (2)
NSF	20	LED Lens	AMR3452
	21	Rubber Foot	VEB1349
	22	Screw	BPZ30P080FTB

(2) CONTRAST TABLE
PDP-R06U/KUCXJ and PRO-R06U/KUCXJ are constructed the same except for the following:

Mark	No.	Symbol and Description	PDP-R06U/KUCXJ	PRO-R06U/KUCXJ
	4	Front Panel Assy U	AXG1036	Not used
	4	Front Panel Assy UE	Not used	AXG1031
	5	Magnet Catcher	ANG2820	ANG2821
	8	Screw (2 x 3.5)	ABA1329	ABA1330
	10	Indicator Panel (U)	AAK2847	Not used
	10	Indicator Panel (UE)	Not used	AAK2842
	11	Door (U)	AAN1484	Not used
	11	Door (UE)	Not used	AAN1480
	12	Front Panel (U)	AMB2872	Not used
	12	Front Panel (UE)	Not used	AMB2864
	13	Escutcheon Ring	AAD4134	Not used
	13	Escutcheon Ring (UE)	Not used	AAD4138
NSP	14	Power Button	AAD4135	Not used
NSP	14	Power Button (UE)	Not used	AAD4141
	16	Sealing Sheet (U)	AAL2674	Not used
	16	Sealing Sheet UE	Not used	AAL2666
	17	Pioneer Name Plate	AAM1107	VAM1109
	18	Door Cushion	AEB1412	Not used
	18	Door Cushion (UE)	Not used	AEB1419
	19	Door Cushion S	AEB1425	Not used
	19	Door Cushion S (UE)	Not used	AEB1426

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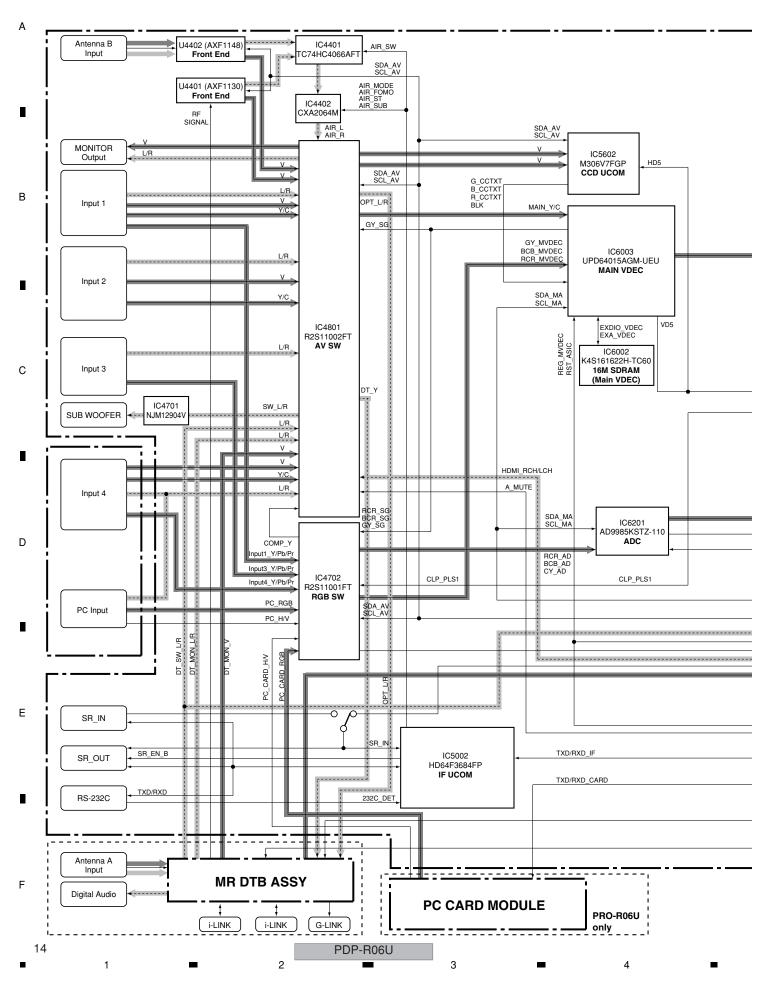
В

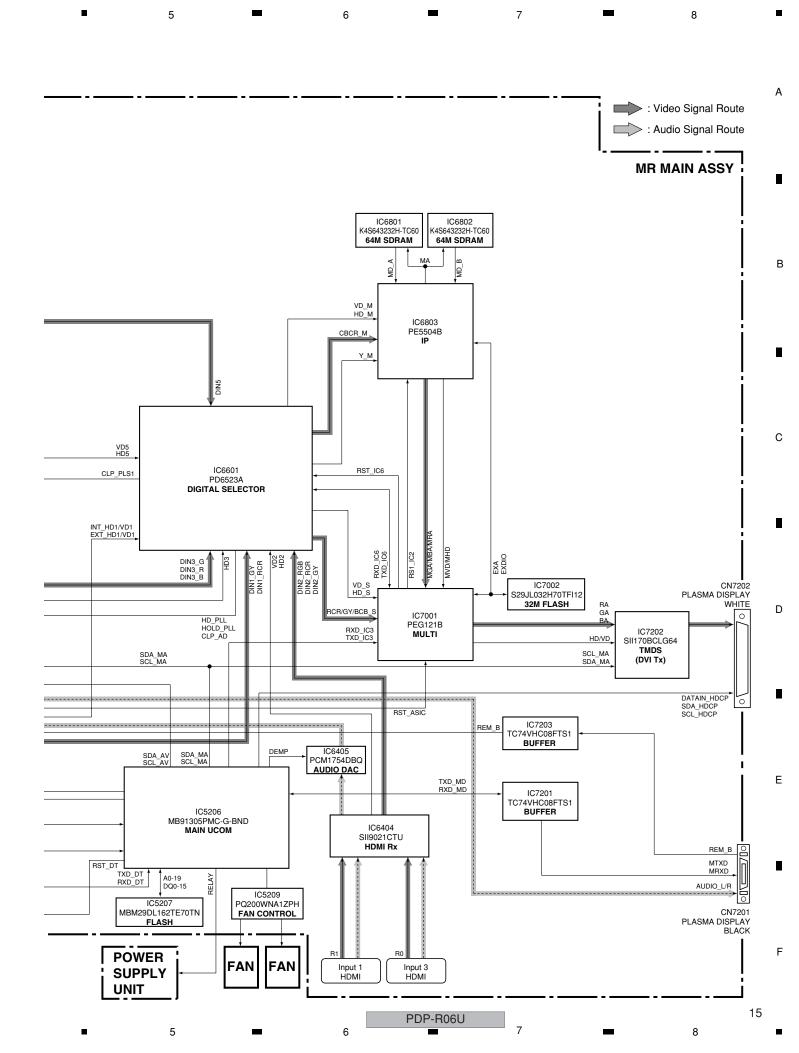
С

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## 3.1 OVERALL BLOCK DIAGRAM

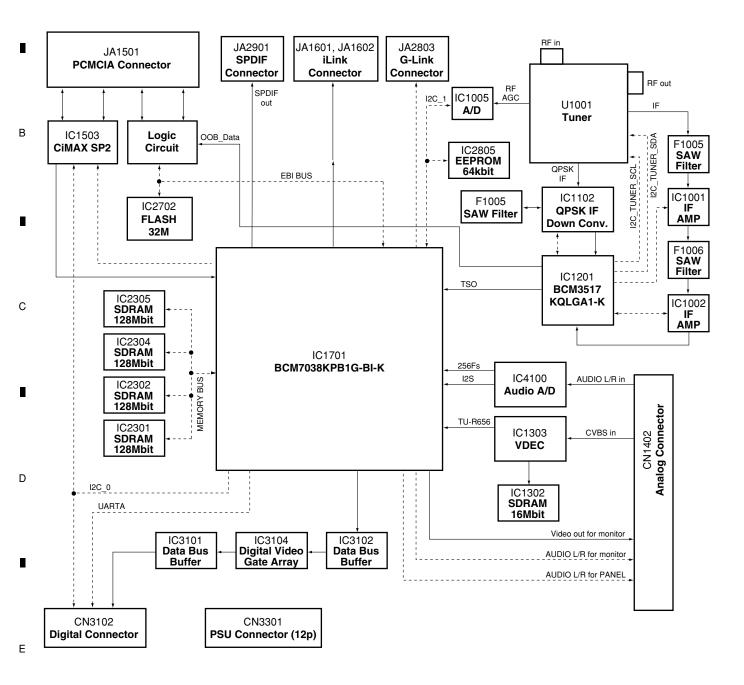




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**MR DTB ASSY** 

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PDP-R06U

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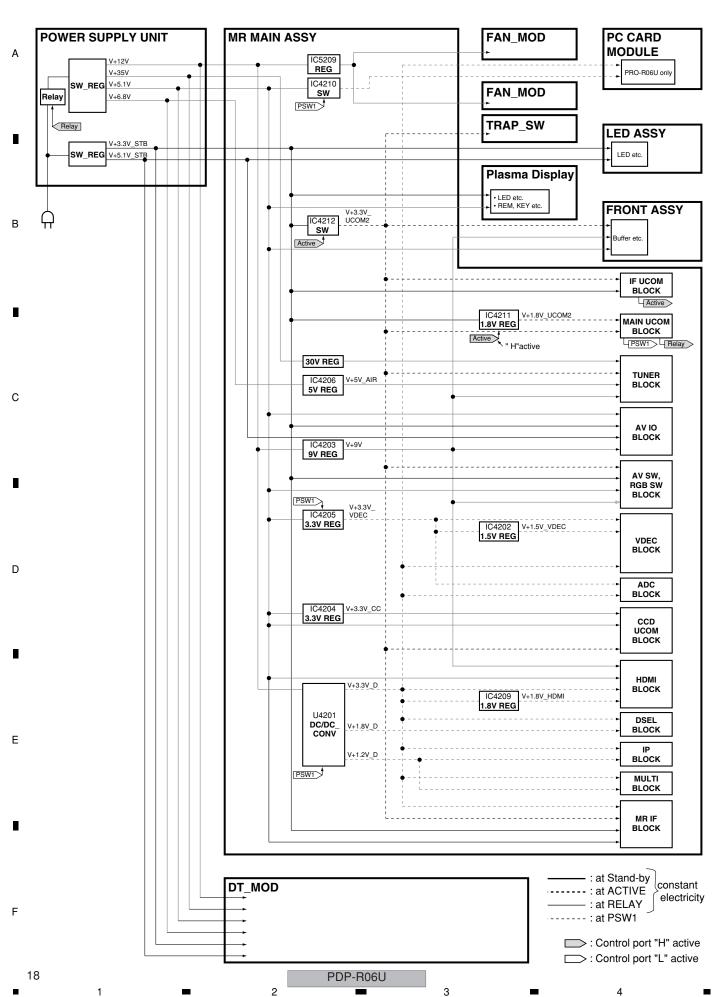
**POWER SUPPLY UNIT** 

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## **PC CARD MODULE**

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IC100 IC300 IC301 IC302 (CPU) (SDRAM) (SDRAM) CN501 (FLASH) CN501  $\bigcirc$  YUVD1\_R TxD② GND RxD ③ YUVD1\_G 4 GND ⑤ YUVD1\_B Hsync 6 GND Vsync 7 YGND IC600 IC400 IC603 IC600 ® CARD\_H (PCMCIA) (VRAM) (GDC) (GDC) Rout 9 CARD\_V 10 NC Gout ① TXD\_CARD Bout 12 RXD\_CARD CN401, 2 CN1 1.9V **←** IC1 (PCMCIA) CN 1 2.5V **←** IC1 ① 3.3V 3.3V ② 3.3V 1.7V **◆** IC3 PC-card ③ GND (4) GND 3.3V **←** ⑤ 5V 6 GND 3.3V **←** IC4 5V 1.7V **∢** 

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PDP-R06U

-N000 **■** 7 **■** 

# 3.6 VOLTAGES

MR MAIN ASSY

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LED\_MDM

LED\_OFF

LED\_ON

12 V+3\_3V\_STB

FRONT ASSY

В

CN7804 (AKM1236)		Voltage	CN4001 (AKM123	
No.	Pin Name	(V)	Pin Name	No.
1	V+3_3V_STB	3.4	V+3_3V_STB	50
2	LED_ON	0	LED_ON	49
3	LED_OFF	3.4	LED_OFF	48
4	GND	0	GND	47
5	V+5 1V STB	5.1	V+5 1V STB	46
6	LED FCT	3.4	LED FCT	45
7	KEY AD1	3.4	KEY_AD1	44
8	KEY_AD2	3.4	KEY_AD2	43
9	GND	0	GND	42
10	GND	0	GND	41
11	GND	0	GND	40
12	GND	0	GND	39
13	PC V	0	PC V	38
14	GND	0	GND	37
15	PC H	0	PC H	36
16	GND	0	GND	35
17	PC G	2.5	PC G	34
18	GND	0	GND	33
19	PC B	2.5	PC B	32
20	GND	0	GND	31
21	PC_R	2.5	PC R	30
22	GND	0	GND	29
23	GND	0	GND	28
24	INPUT4 PLUG	0	INPUT4 PLUG	27
25	INPUT4 Y	2.5	INPUT4 Y	26
26	GND	0	GND	25
27	GND	0	GND	24
28	INPUT4 PB	2.5	INPUT4 PB	23
29	GND	0	GND	22
30	GND	0	GND	21
31	INPUT4 PR	2.5	INPUT4 PR	20
_				<u> </u>
32	GND GND	0	GND GND	19
33		_		18
34	INPUT4_Y	2.5	INPUT4_Y	17
35	GND	0	GND	16
36	INPUT4_C	2.2	INPUT4_C	15
37	GND	0	GND	14
38	INPUT4_SPLUG	5.0	INPUT4_SPLUG	13
39	INPUT4_S2	0	INPUT4_S2	12
40	GND	0	GND	11
41	INPUT4_V	2.5	INPUT4_V	10
42	GND	0	GND	9
43	INPUT4_L	4.5	INPUT4_L	8
44	GND	0	GND	7
45	INPUT4_R	4.5	INPUT4_R	6
46	GND	0	GND	5
47	WE_ROM	0	WE_ROM	4
48	V+3_3V_UCOM	3.4	V+3_3V_UCOM	3
49	V+5V_A	5.0	V+5V_A	2
50	V+9V_A	9.0	V+9V_A	1

CN	7803 (AKM1233)	Voltage	e CN8001 (CKS382	
No. Pin Name		(V)	Pin Name	No.
1	GND	0	GND	12
2	GND	0	GND	11
ω	GND	0	GND	10
4	GND	0	GND	9
5	KEY_AD2	3.4	KEY_AD2	8
6	KEY_AD1	3.4	KEY_AD1	7
7	LED_REC	3.4	LED_REC	6
8	V+5_1V_STB	5.1	V+5_1V_STB	5

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LED\_MDM

LED\_OFF

LED\_ON

V+3\_3V\_STB

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FAN MR MAIN ASS					
		Voltage	CN4007 (AKM127		
No.	Pin Name	(V)	Pin Name	No.	
_	-	7.0	FAN_12V	1	
_	-	0	FAN_NG2	2	
	_	0	GND	3	

FAN	FAN MR MAIN ASS				
		Voltage	CN4009 (AKM1274		
No.	Pin Name	(V)	Pin Name	No.	
-	-	7.0	FAN_12V	1	
_	-	0	FAN_NG1	2	
-	-	0	GND	3	

TRAP-SW MR M			MR MAIN A	ASSY
		Voltage	CN4015 (AKM12	13)
No.	Pin Name	(V)	Pin Name	No.
_	-	3.4	TRAP_SW	1
_	-	_	-	2
_	1	3.4	V+3_3V_UCOM2	3

	ARD MODULE		MR MAIN A	SSY
CN5	CN501 (HFW12S-2STEI)		CN4003 (AKM12	233)
No.	Pin Name	(V)	Pin Name	No.
1	PC_CARD_R	0	PC_CARD_R	12
2	GND	0	GND	11
3	PC_CARD_G	0	PC_CARD_G	10
4	GND	0	GND	9
5	PC_CARD_B	0	PC_CARD_B	8
6	GND	0	GND	7
7	GND	0	GND	6
8	PC_CARD_H	3.3	PC_CARD_H	5
9	PC_CARD_V	3.3	PC_CARD_V	4
10	NC	0	NC	3
11	TXD_CARD	3.3	TXD_CARD	2
12	RXD_CARD	3.3	RXD_CARD	1
12	TIXD_OATID	0.0	TIXD_OATID	<u>'</u>

POWER SUPPLY UNIT MR MAIN AS				
CN1	01 (KM200NA16)	Voltage	CN4006 (KM200N	A16)
No.	Pin Name	(V)	Pin Name	No.
16	V+35V	36.0	V+35V	16
15	GND	0	GND	15
14	V+17V	19.0	V+17V	14
13	GND	0	GND	13
12	V+12V	12.3	V+12V	12
11	GND	0	GND	11
10	V+6_8V	6.6	V+6_8V	10
9	GND	0	GND	9
8	V+5_1V	5.1	V+5_1V	8
7	V+5_1V	5.1	V+5_1V	7
6	V+5_1V_STB	5.1	V+5_1V_STB	6
5	GND	0	GND	5
4	V+3_3V_STB	3.4	V+3_3V_STB	4
3	GND	0	GND	3
2	RELAY	3.4	RELAY	2
1	AC DET	3.4	AC DET	1

	ER SUPPLY UNIT		MKDIBA	155 Y
CN1	02 (KM200NA12)	Voltage	CN3301 (AKM12	298)
No.	Pin Name	(V)	Pin Name	No.
1	V+35V	36.0	V+35V	1
2	GND	0	GND	2
3	V+17V	19.0	V+17V	3
4	GND	0	GND	4
5	V+12V	12.3	V+12V	5
6	GND	0	GND	6
7	V+6_5V	6.6	V+6_5V	7
8	V+5_1V_STB	5.1	V+5_1V_STB	8
9	V+5_1V	5.1	V+5_1V	9
10	V+5_1V	5.1	V+5_1V	10
11	GND	0	GND	11
12	V+3_3V_STB	3.4	V+3_3V_STB	12

PC C	ARD MODULE	MR MAIN A	ASSY	
CN1 (B8B-PH-SM3)		Voltage	CN4002 (AKM12	77)
No. Pin Name		(V)	Pin Name	No.
1	V+3V_CARD	3.3	V+3V_CARD	1
2	V+3V_CARD	3.3	V+3V_CARD	2
3	GND	0	GND	3
4	GND	0	GND	4
5	V+5V_CARD	5.1	V+5V_CARD	5
6	GND	0	GND	6

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MR DTB ASSY MR MAIN ASSY					
CN	1402 (AKM1217)	Voltage	CN4005 (AKM1	303)	
No.	Pin Name	(V)	Pin Name	No.	
1	GND	0	GND	1	
2	GND	0	GND	2	
3	DT_MON_R	4.8	DT_MON_R	3	
4	GND	0	GND	4	
5	DT_MON_L	4.8	DT_MON_L	5	
6	GND	0	GND	6	
7	DT_SP_R	4.8	DT_SP_R	7	
8	GND	0	GND	8	
9	DT_SP_L	4.8	DT_SP_L	9	
10	GND	0	GND	10	
11	OPT_R	0	OPT_R	11	
12	GND	0	GND	12	
13	OPT_L	0	OPT_L	13	
14	GND	0	GND	14	
15	NOT_USE	0	NOT_USE	15	
16	GND	0	GND	16	
17	GND	0	GND	17	
18	NOT USE	0	NOT USE	18	
19	GND	0	GND	19	
20	GND	0	GND	20	
21	NOT USE	0	NOT USE	21	
22	GND	0	GND	22	
23	GND	0	GND	23	
24	DT Y	2.2	DT Y	24	
25	GND	0	GND	25	
26	GND	0	GND	26	
27	DT_MON_V	2.9	DT_MON_V	27	
28	GND	0	GND	28	
29	GND	0	GND	29	
30	NOT USE	0	NOT USE	30	
31	GND	0	GND	31	
32	GND	0	GND	32	
33	TEMP3	0	TEMP3	33	
34	GND	0	GND	34	
35	GND	0	GND	35	
36	LED FCT	3.4	LED FCT	36	
37	RST3	0	RST3	37	
38	RST DT	3.4	RST DT	38	
39	DT DET	0	DT DET	39	
40	GND	0	GND	40	

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CN3	102 (AKM1236)	Voltage	CN4004 (AKM1	201)
No.	Pin Name	(V)	Pin Name	No
1	GND	0	GND	1
2	TXD DT	3.4	TXD DT	2
3	RXD DT	3.4	RXD DT	3
4	GND	0	GND	4
5	DT_FNC	0	DT_FNC	5
6	GND	0	GND	6
7	NC NC	l	NC NC	7
8	NC NC		NC NC	1 8
9	NC		NC	1 9
10	NC		NC	11
11	NC NC		NC NC	1
12	NC NC		NC	1:
13	NC NC		NC NC	1:
14	NC NC		NC NC	1.
15	NC NC		NC NC	1:
16	NC NC		NC NC	10
17				1
-	NC NC		NC NC	-
18	NC NC			10
19	NC		NC	1
20	GND	0	GND	2
21	GND	0	GND	2
22	GND	0	GND	2
23	GND	0	GND	2
24	NC	0	NC	2
25	GND	0	GND	2
26	GND	0	GND	2
27	NC	0	NC	2
28	GND	0	GND	2
29	GND	0	GND	2
30	GND	0	GND	3
31	GND	0	GND	3
32	GND	0	GND	3:
33	NC		NC	3
34	NC		NC	3
35	NC		NC	3
36	NC		NC	3
37	NC		NC	3
38	NC		NC	3
39	NC NC		NC	3
40	NC NC		NC	4
41	NC NC		NC NO	4
42	NC		NC	4:
43	NC		NC	4:
44	NC		NC	4
45	NC		NC	4
46	NC		NC	4
47	NC		NC	4
48	NC		NC	4
49	NC		NC	4
50	NC	1	NC	5

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PDP-R06U

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# **5. PCB PARTS LIST**

NOTES: • Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.

- The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- When ordering resistors, first convert resistance values into code form as shown in the following examples.
   Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

#### ■ LIST OF HOLE PCB ASSEMBLIES

)				
_	Mark	Symbol and Description	PDP-R06U/KUCXJ	PRO-R06U/KUCXJ
	$\triangle$	1MR DTB ASSY	AWE1305	AWE1305
	<u> </u>	1MR MAIN ASSY	AWV2225	AWV2223
I	NSP/L	1MR FUKUGO ASSY 2LED ASSY 2FRONT ASSY	AWV2226 AWW1045 AWW1046	AWV2224 AWW1045 AWW1044
	<u> </u>	1POWER SUPPLY UNIT	AXY1113	AXY1113

#### C MR MAIN ASSY

AWV2225 and AWV2223 are constructed the same except for the following:

Mark	Symbol and Description	AWV2225	AWV2223
	[BOARD IF BLOCK]		
	R4017,R4018	RS1/16SS474J	Not used
	R4024	Not used	RS1/16SS0R0J
•	R4025	RS1/16SS0R0J	Not used
	CN4002 PH CONNECTOR 6P	Not used	AKM1277
	CN4003 12P FFC CONNECTOR	Not used	AKM1233
	[MR REG BLOCK]		
	IC4210	Not used	BD6522F
_	Q4203	Not used	DTC124EUA
)	F4204 EMI FILTER	Not used	CCG1162
	L4202 INDUCTOR	Not used	BTH1111
	L4206 CHIP FERRITE BEAD	Not used	BTX1042
	C4202,C4207,C4268	Not used	CKSSYF104Z16
_	C4218 (10/6.3V)	Not used	ACG7046
	C4267	Not used	CEHVKW101M6R3
	R4202	Not used	RS1/16SS103J
	[AV IO BLOCK]		
	JA4601 4P MINI DIN SOCKET	AKP1234	AKP1235
	JA4605 9P PIN JACK	AKB1319	AKB1323
	[MAIN UCOM BLOCK]		
≣	R5243	Not used	RS1/16SS103J
	R5251	RS1/16SS103J	Not used
	[MR RGB SW BLOCK]		
	JA4701 9P PIN JACK	AKB1329	AKB1322

#### **FRONT ASSY**

AWW1046 and AWW1044 are constructed the same except for the following:

Mark	Symbol and Description	AWW1046	AWW1044
	R7869	Not used	RS1/16SS0R0J
	R7870	RS1/16SS0R0J	Not used
	JA7801 4P MINI DIN SOCKET	AKP1238	AKP1239
	JA7803 PIN JACK (3P)	AKB1303	AKB1304
	JA7805 PIN JACK (3P)	AKB1305	AKB1306

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PDP-R06U

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■ PCI	B PARTS LIS	T FOR PDF	P-R06U/KUCX	J UNLESS	OTHER WI	SE NOTED

MR DTB ASS	<b>Description</b>	Part No.	Mark No.	Description	Part No.	
	· Y		<b>CAPACITORS</b>			
TUNED IF DI A			C1108		CCSSCH100D50	
TUNER IF BLO	-		C1106,C1115,C1	124	CCSSCH101J50	
SEMICONDUCT	<u>rors</u>		C1110		CCSSCH120J50	
IC1005		MCP3021A5-I/OTG	C1107,C1109,C1	117	CCSSCH270J50	
IC1001,IC1002		UPC3219GV	C1111,C1119		CCSSCH390J50	
Q1002-Q1004		2SC5084				
Q1007		BB504CDS	C1118		CCSSCH560J50	
Q1005		DTC143EUA	C1103,C1112,C1	128,C1129	CKSSYB102K50	
			C1133,C1134	•	CKSSYB102K50	
COILS AND FIL	<u>.TERS</u>		C1101,C1102,C1	104,C1105,C1116	CKSSYB103K16	
F1006 SAW FILT	ER	ATF1219	C1121,C1122,C1	127	CKSSYB103K16	
F1005 SAW FILT	ER	BTF1130				
L1001,L1005 CH	IIP COIL	BTH1121	C1123		CKSSYB271K50	
L1004		LCTAW1R5J2520				
L1007		LCYA10NJ2520	RESISTORS			
			All Resistors		RS1/16S###J	
L1006		LCYAR82J2520				
F1002-F1004,F10	07,F1008	VTF1084				
FERRITE BEA			[F/E IC BLOCK]	1		
APACITORS			SEMICONDUC	IUKS		
C1022		ACH1429	IC1201		BCM3517KQLGA1	
C1022 C1017		BCG1054				
C1017		CCSSCK2R0C50	<b>COILS AND FII</b>	<u>LTERS</u>		
C1010 C1027		CEHVKW100M50	L1203 CHIP BEA	AD FILTER	BTX1042	
			L1201		LCTAW1R8J2520	
C1003		CEHVKW101M6R3	F1201,F1202,F12	204-F1206	VTF1084	
C1026		CKCOVB005K10	FERRITE BEA			,
		CKSQYB225K10				
C1028	004 04007	CKSSYB102K50	CAPACITORS			
C1001,C1002,C10		CKSSYB103K16	C1235,C1257-C1	250	BCG1054	
C1011-C1014,C1		CKSSYB103K16	C1201,C1203,C1		BCG1054 BCG1059	
C1023-C1025,C1	036-C1039	CKSSYB103K16	C1201,C1203,C1	210	CCSSCH120J50	
0.0000000000000000000000000000000000000			C1229,C1234 C1228,C1233		CCSSCH120000 CCSSCH9R0D50	
C1016,C1029,C10	J31	CKSSYB104K10				
E010=0=0			C1250		CKSSYB102K50	
<b>ESISTORS</b>			C1204-C1214,C1	216 (1217	CKSSYB103K16	
R1011		RS1/16SS1001F	C1204-C1214,C1		CKSSYB103K16	
R1035		RS1/16SS1502F	C1219-C1225,C1		CKSSYB103K16	
R1018		RS1/16SS2201F	C1257-C1259,C1	∠+1-01∠+3	CKSSYB103K16	1
R1025		RS1/16SS4701F		251 C1256	CKSSYB103K16 CKSSYB104K10	
R1024		RS1/16SS4703F	C1215,C1236,C1	201,01200	UN331B104N10	
			DECICEODO			
R1036		RS1/16SS5602F	RESISTORS			
R1045		RS1/16SS6801F	R1201,R1227-R1	229	RAB4CQ330J	
R1026		RS1/16SS6802F	R1213,R1217		RS1/16S3010F	
Other Resistors		RS1/16S###J	Other Resistors		RS1/16S###J	
THERS			<u>OTHERS</u>			
U1001 DIGITAL F	RONT END	AXF1151	X1201 CRYSTAL	RESONATOR	BSS1134	
	- <del>-</del>	<del></del>				
			p	010		
<b>QPSK RX BLO</b>	CK]		[VIDEO IC BLO	-		1
EMICONDUC	-		SEMICONDUC	TORS		•
		UPC3220GR	IC1302		HY57V161610ETP-8	
		01 0022000	IC1303		TVP5160PNP	
IC1102	TEDS		Q1301-Q1303,Q	1306	2SC4081	
		V/TE4004	Q.00. Q1000,Q	<del>-</del>		
OILS AND FIL		VTF1084	COILS AND FII	TERS		
OILS AND FIL F1101 FERRITE			COILO AND I II	<u> </u>		
F1101 FERRITE F1102 SAW FILT		ATF1215	1 1201		I C.VA220 I2E20	
F1101 FERRITE F1102 SAW FILT L1107		LCTAW1R5J2520	L1301	007 EEDDITE DEAD	LCYA220J2520	
OILS AND FIL F1101 FERRITE F1102 SAW FILT L1107 L1104		LCTAW1R5J2520 LCYA56NJ2520		307 FERRITE BEAD		
OILS AND FIL F1101 FERRITE F1102 SAW FILT L1107		LCTAW1R5J2520	F1301-F1305,F13	307 FERRITE BEAD		
F1101 FERRITE F1102 SAW FILT L1107 L1104 L1103,L1105		LCTAW1R5J2520 LCYA56NJ2520 LCYA68NJ2520	F1301-F1305,F13 <b>CAPACITORS</b>		VTF1084	
F1101 FERRITE F1102 SAW FILT L1107 L1104 L1103,L1105		LCTAW1R5J2520 LCYA56NJ2520 LCYA68NJ2520 LCYA82NJ2520	F1301-F1305,F13  CAPACITORS  C1302,C1315,C1		VTF1084 BCG1054	
F1101 FERRITE F1102 SAW FILT L1107 L1104 L1103,L1105		LCTAW1R5J2520 LCYA56NJ2520 LCYA68NJ2520	F1301-F1305,F13  CAPACITORS  C1302,C1315,C1  C1336		VTF1084  BCG1054 BCG1059	
F1101 FERRITE F1102 SAW FILT L1107 L1104 L1103,L1105		LCTAW1R5J2520 LCYA56NJ2520 LCYA68NJ2520 LCYA82NJ2520	F1301-F1305,F13  CAPACITORS  C1302,C1315,C1		VTF1084 BCG1054	ı
F1101 FERRITE F1102 SAW FILT L1107 L1104 L1103,L1105 L1102,L1108		LCTAW1R5J2520 LCYA56NJ2520 LCYA68NJ2520 LCYA82NJ2520	F1301-F1305,F13  CAPACITORS  C1302,C1315,C1  C1336		VTF1084  BCG1054 BCG1059	

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	Mark No. Description	Part No.	Mark No. Description Part No.
	C1346,C1347	CCSSCH8R0D50	[IEEE1394 BLOCK]
	C1301 C1335,C1350,C1353,C1354	CKSSYB102K50 CKSSYB103K16	<u>SEMICONDUCTORS</u>
	C1303-C1314,C1316-C1334	CKSSYB103K10	IC1606 CY2305SC-1H
`	C1338-C1340,C1343-C1345	CKSSYB104K10	IC1604 PST3622NR IC1605 SN74LVC125APW
	,		IC1603 SN74LVC125APW IC1601,IC1603 SN74LVC1G08DCK
	C1351,C1352	CKSSYB104K10	IC1602 TSB43CA42ZGW
	RESISTORS	D. D. J. D. J. D. J.	Q1601 DTC124EUA
	R1301,R1302 R1309	RAB4CQ101J RS1/16SS1201F	
	R1311,R1319,R1377	RS1/16SS1201F RS1/16SS6800F	COILS AND FILTERS
	Other Resistors	RS1/16S###J	L1605-L1608 CHOKE COIL ATH1160
			F1601,F1603 EMI FILTER DTL1106 F1602.F1604 FERRITE BEAD VTF1084
	<u>OTHERS</u>		1 1002,1 1004 1 ETHITE BEAD VII 1004
3	X1301 CRYSTAL RESONATOR	BSS1119	CAPACITORS
•	(14.31818MHz)		C1638-C1640 BCG1054
			C1634,C1635 CCSSCH221J50
	[A-A/D, AV-IF BLOCK]		C1610,C1616 CCSSCH6R0D50
	SEMICONDUCTORS		C1633,C1637 CKSRYB105K10 C1611.C1618.C1624 CKSSYB102K50
	IC1404	NJM2068V	C1611,C1618,C1624 CKSSYB102K50
	IC1402	PCM1803DB	C1601,C1603,C1623,C1625-C1630 CKSSYB103K16
			C1636 CKSSYB103K16
	COILS AND FILTERS		C1602,C1604-C1609,C1612,C1613 CKSSYB104K10
	F1401,F1402,F1404 FERRITE BEAL	O VTF1084	C1617,C1619-C1622,C1631,C1632 CKSSYB104K10
	0.4.0.4.0.17.0.0.0		RESISTORS
	CAPACITORS	D004054	R1606-R1612 RAB4CQ0R0J
	C1401,C1402,C1412,C1418,C1419 C1403,C1408	BCG1054 BCG1059	R1634 RAB4CQ330J
	C1416,C1421	CKSRYB105K10	R1635-R1639,R1649,R1652 RAB4CQ472J
	C1406,C1413,C1417,C1422	CKSSYB103K16	R1676,R1677 RAB4CQ472J
	C1404,C1409,C1414,C1423,C1424	CKSSYB104K10	R1653 RS1/16S6341D
1	C1407,C1420	CKSSYB271K50	R1674,R1675 RS1/16SS5101F
	C1405	DCH1165	R1659-R1663,R1671-R1673 RS1/16SS56R0D
			Other Resistors RS1/16S###J
	<u>RESISTORS</u>		OTHERS
	R1414,R1436	RS1/16SS1002F RS1/16SS2402F	JA1601,JA1602 AKP1289
	R1412,R1429 Other Resistors	RS1/16S52402F RS1/16S###J	IEEE1394 CONNECTOR
)		1101/1001/1110	X1601 CRYSTAL RESONATOR ASS1202
	<u>OTHERS</u>		(24.576MHz)
	CN1402 40P CONNECTOR	AKM1217	
			[BACK END IC BLOCK]
	[POD IC BLOCK]		SEMICONDUCTORS
	SEMICONDUCTORS		IC1701 BCM7038KPB1G-B1
	IC1503	CIMAXSP2L	Q2201 RN1901
	IC1503	SN74LVC244APW	
	IC1502	SN74LVC245APW	COILS AND FILTERS
	IC1506	SN74LVC257APW	F1701-F1709 FERRITE BEAD VTF1084 F1901 FERRITE BEAD VTF1084
	IC1505,IC1507	SN74LVC373APW	F2001-F2003 FERRITE BEAD VTF1084
	CAPACITORS		F2201-F2209 FERRITE BEAD VTF1084
	C1510	CCSSCH680J50	
	C1513-C1516	CKSSYB102K50	CAPACITORS
	C1502-C1509,C1511,C1512	CKSSYB104K10	C1752 ACH1421
	DECICTORS		C1712 ACH1429 C2205 BCG1054
	RESISTORS	DAD4COODO I	C1734,C1742,C1747,C1751,C1909 BCG1059
	R1557 R1510,R1521,R1549	RAB4CQ0R0J RAB4CQ103J	C2208 CCSSCH150J50
	R1517-R1520,R1526-R1529,R1531	RAB4CQ470J	04700 04704 04714 04717 04707
	R1534,R1535,R1539-R1543,R1545	RAB4CQ470J	C1702,C1704,C1711,C1715,C1722
	Other Resistors	RS1/16S###J	C1729,C1730,C1732,C1736,C1738 CKSSYB103K16 C1744,C1745,C1749,C1907,C2007 CKSSYB103K16
	OTHERS		C2009,C2011,C2201,C2203,C2207 CKSSYB103K16
	OTHERS  JA1501 PC CARD CONNECTOR	AKP1287	C2215,C2217,C2222,C2225,C2227 CKSSYB103K16
	SATSST TO CARD CONNECTOR	AN 1201	
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Mark No.	<u>Description</u>	Part No.	Mark No. Description	Part No.	
C2229	•	CKSSYB103K16	[FLASH, E2P BLOCK]		
	3,C1705-C1710	CKSSYB104K10			
	4,C1716-C1721	CKSSYB104K10	<u>SEMICONDUCTORS</u>		
	8,C1731,C1733,C1735	CKSSYB104K10	IC2805	BR24L64F-W	٨
	9-C1741,C1743,C1746	CKSSYB104K10	IC2702	PC28F256J3C125	Α
01/3/,01/3	9-01741,01743,01746	CK331B104K10	IC2804	PST3622NR	
0.17.40.0175	0.1000 0.1000 0.1000	01/00//04041/40	IC2701	SN74AHC2G02HDCT	
	0,C1902,C1903,C1908	CKSSYB104K10	Q2804	2SA1576A	
	3,C2010,C2012,C2202	CKSSYB104K10			
	6,C2216,C2218,C2223	CKSSYB104K10	Q2805	2SC4081	
C2226,C2228	3,C2230	CKSSYB104K10	Q2806	UMD2N	_
			D2802	RB501V-40	
RESISTORS	3				
R2249,R2250		RAB4CQ101J	D2801,D2803	UDZS4R7(B)	
R1715	,	RAB4CQ330J			
-	2		COILS AND FILTERS		
R2002,R2006		RAB4CQ470J	L2802	LCTAW2R2J2520	
R1807-R1818	8	RAB4CQ472J			-
R2204		RS1/16SS1002F	<u>CAPACITORS</u>		Е
				D004054	
R2208,R2209	9	RS1/16SS1101F	C2801	BCG1054	
	3,R2205-R2207	RS1/16SS75R0F	C2810-C2812,C2816,C2817	CCSRCH101J50	
Other Resisto		RS1/16S###J	C2820,C2821	CCSRCH101J50	
Other Hesist	710	1 ιο 1/100πππο	C2803,C2804	CCSSCH120J50	
			C2802,C2806	CCSSCJ3R0C50	
			, <b></b>		
DDR SDRA	M BLOCK]		C2822	CKSQYB105K16	_
SEMICOND	UCTORS			CKSSYB103K16	
IC2303		BD3533F	C2702-C2706,C2813,C2818,C2819		
	JO 1003UN 1003UE	MT46V16M16P-6TF	C2701	CKSSYB104K10	
102301,10230	02,IC2304,IC2305	1VI 1 40 V 101VI 1017-0 1 F	C2808	CKSSYF104Z16	
	_				
CAPACITOF	<u> </u>		<u>RESISTORS</u>		С
C2301,C2306	6,C2311,C2312,C2329	BCG1054	R2702	RAB4CQ101J	
C2352		BCG1054	R2704	RAB4CQ472J	
C2253,C2255	5	BCG1059	R2803.R2808	RS1/16S3010F	
C2313		CEHVKW101M6R3	Other Resistors	RS1/16S###J	
	5,C2307-C2310	CKSSYB103K16	Other nesistors	NS 1/103###J	
02002-0200	3,02307-02310	010011010110			
00045 0004	0.0040.00000	01/00/104 001/40	<u>OTHERS</u>		
,	6,C2319,C2320	CKSSYB103K16	JA2803 MINI JACK (4P)	AKN1073	_
	4,C2327,C2328	CKSSYB103K16	CN2701 80P CONNECTOR	BKP1159	
	9,C2342,C2343	CKSSYB103K16	X2801 CRYSTAL RESONATOR	BSS1134	
C2346,C2347	7,C2350,C2351	CKSSYB103K16	ALGOT OTTO METILEGOTO TOTA	2001101	
C2318,C2322	2,C2341,C2345	CKSSYB104K10			
			TAN OUT DI COM		
C2317.C232	1,C2340,C2344	CKSSYB471K50	[A/V OUT BLOCK]		D
02017,0202	1,02010,02011	01.00121111.00	SEMICONDUCTORS		D
DECICTORS			IC3001,IC3002,IC3004,IC3005	NJM2068V	
RESISTORS	2		Q2901	2SA1576A	
All Resistors		RS1/16S###J	Q2301	23A1370A	
			COILS AND FILTERS		
RUSTERMI	NAL BLOCK]		L3001,L3002 CHIP COIL	BTH1107	_
•	_		F2901 FERRITE BEAD	VTF1084	
COILS AND					
F2601-F2603	FERRITE BEAD	VTF1084	CAPACITORS		
				DCC10F0	
CAPACITOF	RS		C2902	BCG1059	
C2509-C251		BCG1054	C3003,C3013,C3023,C3036	CCSRCH331J50	
			C3001,C3004,C3014,C3015	CCSSCH220J50	_
C2501-C2508		CKSSYB103K16	C3024,C3025,C3037,C3038	CCSSCH220J50	Е
C2601-C261	1	CKSSYB104K10	C3006,C3010,C3029,C3032	CCSSCH560J50	
			C3020,C3021,C3042,C3043	CKSSYB103K16	
RESISTORS	<u>S</u>		,,,		
	- 8.R2552-R2559	RAB4CQ101J	C2924	CKSSYB104K10	
	5,R2530-R2543	RAB4CQ220J			
	8,R2560,R2561	RAB4CQ220J	C3007,C3017,C3026,C3039	CKSSYB391K50	_
			C3009,C3012,C3031,C3035	CKSSYB821K50	
,	5,R2568-R2573	RAB4CQ220J	C2904	CKSSYF104Z16	
H2526-H2528	8,R2549,R2550	RAB4CQ510J	C3019,C3041	DCH1165	
R2562,R2563	3,R2566,R2567	RAB4CQ510J	RESISTORS		
Other Resisto	ors	RS1/16S###J	R3005,R3006,R3023,R3024	RS1/16SS3302F	
			R3039,R3040,R3062,R3063	RS1/16SS3302F	F
			Other Resistors	RS1/16S###J	
				_	

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Mark No. Description	Part No.	Mark No. Description	Part No.
OTHERS  JA2901 OPTICAL OUTPUT JACK	TOTX179PL	C3310 C3307 C3318,C3322,C3351	CKSSYB102K50 CKSSYB103K16 CKSSYB471K50
[DVD I/F BLOCK]		C3306,C3309,C3325,C3326,C3364 C3401,C3408,C3410,C3412	CKSSYF104Z16 CKSSYF104Z16
SEMICONDUCTORS		DEGICTORS	
IC3104	PE5436A	RESISTORS	
IC3101,IC3102	SN74AVC16827DGG	All Resistors	RS1/16S###J
<b>COILS AND FILTERS</b>		OTHERS  CN3301 12P CONNECTOR	AKM1298
F3101,F3103 FERRITE BEAD	VTF1084	CN3301 12P CONNECTOR	ANW1298
CAPACITORS		[POWER BLOCK (2/2)]	
C3102,C3116,C3117	BCG1054	SEMICONDUCTORS	
C3137-C3141	CCSSCH221J50	IC3312	DA00DC0WED
C3101,C3109-C3115	CKSRYB105K10		BA00BC0WFP
C3118-C3131	CKSSYB102K50	IC3314,IC3318 IC3310.IC3313.IC3317.IC3321	PST623XW R1224N102H
C3103-C3108,C3132,C3133	CKSSYB104K10	Q3301.Q3305	2SA1576A
C3134-C3136	CKSSYB471K50	Q3301,Q3305 Q3302,Q3303,Q3306,Q3311	CPH6311
RESISTORS		Q3307	DTC124EUA
R3121	RAB4CQ0R0J	Q3304,Q3308,Q3310	RN1901
R3104,R3119,R3122,R3133,R3134	RAB4CQ330J	D3311,D3312,D3315,D3318	D1FM3
R3145	RAB4CQ330J	COILS AND FILTERS	
R3108,R3109,R3113	RAB4CQ470J	L3302,L3305 INDUCTOR	ATH1161
Other Resistors	RS1/16S###J	L3301,L3317 CHOKE COIL	
		L3307,L3307 CHOKE COIL L3307,L3308 CHIP BEAD FILTER	ATH1192 BTX1042
<u>OTHERS</u>		L3307,L3306 CHIP BEAD FILTER	D1/1042
CN3102 50P CONNECTOR	AKM1236	CAPACITORS	
			AOLI4 400
		C3338,C3346	ACH1429
[POWER BLOCK (1/2)]		C3332,C3334,C3337,C3339,C3347	
SEMICONDUCTORS		C3357,C3359	BCG1054
IC3315	MM1563DF	C3344	BCG1059
IC3301,IC3306	MM1565AF	C3335,C3358	CEHVKW101M6R3
IC3309	NJM2370U09	C3345	CEHVKW470M16
IC3316	NJM2846DL3-18	C3343 C3331.C3333.C3340-C3342.C3360	
IC3302,IC3305,IC3307	NJM2846DL3-33	C3336,C3343	CKSSYB102K50
		C3316,C3317,C3329,C3361	CKSSYB102K30
IC3304	NJM2871BF05	C3441	CKSSYB152K50
Q3309	2SC4081	00441	010010102100
D3308	1SS355	C3367	CKSSYB682K25
D3302-D3305,D3307,D3309,D3310	RB501V-40	C3330	CKSSYF104Z16
D3314,D3316	RB501V-40		01.0011 101210
D3317	UDZS30(B)	RESISTORS	
20017	05200(D)	R3352,R3353	RS1/10S271J
COILS AND FILTERS		R3375,R3421	RS1/16SS1002F
L3304 CHIP BEAD FILTER	BTX1042	R3382,R3422	RS1/16SS1003F
F3301.F3302 FERRITE BEAD	VTF1084	R3348	RS1/16SS1103F
. 0001,1 0002 1 EIIIIII DEAD	VII 100-T	R3381,R3425	RS1/16SS1202F
CAPACITORS		P3344	DQ1/16QQ1E00F
C3302,C3304,C3305,C3313,C3314	BCG1054	R3344 R3323.R3354	RS1/16SS1503F RS1/16SS2202F
C3321,C3363,C3409,C3411	BCG1054	R3355	RS1/16SS3302F
C3356	BCG1059	R3328	RS1/16SS5102F
C3323	BCG1060	R3380,R3384	RS1/16SS5602F
C3311	BCG1064	110000,110004	1101/100000021
		R3349	RS1/16SS9102F
C3324	CEHVKW100M50	R3314-R3316	RS1/4S1R5J
C3407	CEHVKW470M16	R3337,R3338	RS1/4S3R3J
C3301,C3319,C3353	CKSQYB105K16	Other Resistors	RS1/16S###J
C3354	CKSQYB225K10		
C3308,C3362	CKSRYB105K10	<u>OTHERS</u>	
		8008 INSULATION SHEET	AAK2862
		8001 THERMAL SHEET B	AEB1417
		8101 CASE TOP U	ANG2787
		8102 CASE BOTTOM	ANG2898
		8103 HEAT SINK B	ANH1645
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Mark No. Description 8006 GASKET	Part No. ANK1789	Mark No. Description	Part No.	
8007 GASKET	ANK1799 ANK1790	RESISTORS R4225	RS1/10S0R0J	
8301 SCREW	BBB30P080FTC	Other Resistors	RS1/16S###J	
8302 SCREW 8303 SCREW	BBZ30P060FTC PMB20P100FTC	OTHERS		Α
		U4201 DD CONTROL UNIT	AXY1117	
MR MAIN ASSY		[MR TUNER BLOCK]		
[BOARD IF BLOCK]		SEMICONDUCTORS		
SEMICONDUCTORS		IC4402	CXA2064M	
Q4001 D4001	DTA124EUA 1SS355	IC4401 Q4406,Q4414	TC74HC4066AFT 2SA1586	
		Q4401,Q4402,Q4405,Q4408,Q4409	2SC4116	
RESISTORS	DON4.070	Q4416-Q4418	2SC4116	Б
R4008,R4010 R4011	BCN1070 RAB4CQ0R0J	Q4404	DTA124EUA	В
R4021-R4023	RS1/10S0R0J	Q4403,Q4407,Q4413,Q4415	HN1B04FU	
Other Resistors	RS1/16S###J	Q4410 D4401	HN1C01FU 1SS355	
OTHERS		D4402	UDZS30(B)	
CN4004 50P CONNECTOR	AKM1201	COILS AND FILTERS		
CN4015 3P CONNECTOR CN4001 50P CONNECTOR	AKM1213 AKM1236	L4401-L4404 CHIP COIL	BTH1121	
CN4007,CN4009 3P CONNECTOR	AKM1274	F4401-F4404 FERRITE CORE	VTF1080	
CN4005 40P CONNECTOR	AKM1303	CAPACITORS		
		C4419,C4425,C4427 (4.7U/10V)	ACG1122	
[MR REG BLOCK]		C4430,C4440,C4441 (4.7U/10V)	ACG1122	С
SEMICONDUCTORS	BD05005	C4412,C4443 (10/6.3V) C4445 (100UF/16V)	ACG7046 ACH1394	
IC4212 IC4211	BD6522F MM1661JH	C4421	ACH1417	
IC4202	NCP1117ST15	C4420	ACH1418	
IC4209 IC4204,IC4205	NCP1117ST18 PQ033ENA1ZPH	C4450	CCSRCH331J50	Ī
104204,104200	1 QUUULIVATZI TI	C4414,C4447 C4401	CCSRCH821J50	_
IC4206 IC4203	PQ050DNA1ZPH PQ090DNA1ZPH	C4405,C4406,C4434,C4435	CEHVKW100M50 CEHVKW101M6R3	
Q4201	DTC124EUA	0.4400	05111/1/1/10001440	
D4202-D4206,D4209,D4211	1SS355	C4436 C4422,C4428,C4451,C4452	CEHVKW220M16 CKSRYB105K10	
COILS AND FILTERS		C4442	CKSRYB123K50	D
L4201 INDUCTOR	BTH1111	C4407,C4431 C4402.C4415.C4416	CKSRYF104Z50 CKSSYB102K50	
	BTX1042 CCG1162	04402,04410,04410		
EMI FILTER	BTH1111	C4423 C4424	CKSSYB272K50 CKSSYB473K16	
0.4.04.04.00		C4429	CKSSYB562K25	
CAPACITORS C4206,C4209,C4215 (10/6.3V)	ACG7046	C4410,C4411,C4439	CKSSYF104Z16	
C4220,C4240,C4250 (10/6.3V)	ACG7046	C4418,C4426,C4444,C4446	DCH1165	
C4253,C4257 (10/6.3V) C4260.C4263 (10/6.3V)	ACG7046 ACG7046	<u>RESISTORS</u>		
C4260,C4263 (10/6.3V) C4213 (100UF/16V)	ACH1394	R4401 R4430.R4431	ACN1199 RS1/16SS1002F	_
0.404.0.404.0.4000	40114.400	R4437	RS1/16SS6802F	Е
C4210,C4244,C4269 C4273	ACH1429 CCSSCH101J50	VR4401	CCP1394	
C4216,C4219,C4221,C4222,C4224	CEHVKW101M6R3	VR4402-VR4404	CCP1396	
C4228,C4238,C4264 C4226	CEHVKW101M6R3 CEHVKW220M16	Other Resistors	RS1/16S###J	
		OTHERS		
C4214 C4217,C4223	CKSRYB104K16 CKSRYB105K10		AXF1130	
C4229,C4252	CKSSYB104K10	⚠U4402 FRONT END (US)	AXF1148	
C4232	CKSSYB471K50			
C4204,C4212,C4227,C4251	CKSSYF104Z16			_
C4261,C4262	CKSSYF104Z16			F
C4211,C4225,C4256	DCH1165			
_	_	PDP-R06U	_	27

PDP-R06U 7 8

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	o. Description	Part No.	Mark No. De	escription	Part No.
[AV IO	BLOCK]		C4808,C4809		CKSSYB104K10
_	ONDUCTORS		C4801,C4803,C4805	5,C4812	CKSSYF104Z16
IC460		MAX3232CPW	C4814-C4816,C4830	),C4841,C4844	CKSSYF104Z16
			C4853,C4854		CKSSYF104Z16
IC4603		TC74VHC00FTS1	C4826,C4829,C4831	.C4842.C4843	DCH1165
IC4602		TC74VHC125FTS1	,,-	, ,	
	-Q4607,Q4612,Q4615	2SA1586	C4845,C4846		DCH1165
Q4609	,Q4610,Q4613	2SC4116	0 10 10,0 10 10		20111100
0.400	0.4000		RESISTORS		
	,Q4603	2SC5233	R4819,R4821		RS1/16S1800F
Q4601		DTA124EUA	· · · · · · · · · · · · · · · · · · ·		
	,Q4611,Q4614,Q4616	DTC124EUA	R4818,R4820		RS1/16S5600F
Q4608		HN1A01FU	Other Resistors		RS1/16S###J
D4601		1SS301			
D4602	,D4618-D4621	1SS355	[IF UCOM BLOCK		
			SEMICONDUCTO	RS	
CAPAC	ITORS		IC5002		HD64F3684FP
	(10/6.3V)	ACG7046	IC5003		PST9230N
	.C4608	ACH1419	IC5001		TC74VHC08FTS1
	.C4634	CEHVKW100M16	IC5004		TC7W126FU
	,C4612,C4617-C4620	CKSRYB105K10	Q5001		DTC124EUA
	,C4612,C4617-C4620 .C4626	CKSRYB105K10	Q300 I		DIOI24LUA
U4625	,04020	OLYCOLGIUCYC	CADACITODO		
04044	C461E C4616 C4600 C4004	CKSSAB400K40	CAPACITORS		
	,C4615,C4616,C4622-C4624	CKSSYB103K16	C5007,C5008		CCSSCH180J50
	,C4621	CKSSYB473K16	C5001		CEHVKW101M6R3
	,C4627-C4631,C4633,C4635	CKSSYF104Z16	C5010		CKSSYB472K25
C4602	,C4605,C4609,C4613	DCH1165	C5002-C5005,C5009	9,C5012	CKSSYF104Z16
			•		
<b>RESIS</b>	<u>rors</u>		RESISTORS		
R4619		RS1/10S121J	R5002,R5004,R5007	7 R5025 R5026	RAB4CQ103J
R4611		RS1/10S151J	Other Resistors	,, 10020,1 10020	
_	,R4625,R4627,R4633	RS1/16S75R0F	Other nesistors		RS1/16S###J
	,R4636	RS1/16S75R0F	07:1550		
	,n4636 Resistors	RS1/16S###J	<u>OTHERS</u>		
Oliter	1031013	1101/100###0	X5002 CERAMIC RI		ASS1168
	28		X5001 CRYSTAL OS	SCILLATOR	ASS1172
ULDE.	1 <del>3</del>				
OTHER	- OD DIN 14 C17				
JA460	5 9P PIN JACK	AKB1319			
JA460 JA460	3 MINI JACK (4P)	AKN1073	[MAIN UCOM BLO	OCK]	
JA460 JA460 CN460	3 MINI JACK (4P) 22 9P D-SUB SOCKET		[MAIN UCOM BLC		
JA460 JA460 CN460 JA460	3 MINI JACK (4P) 12 9P D-SUB SOCKET 1 DUAL 4P MINI DIN (S)	AKN1073	SEMICONDUCTO		DD04L04EW
JA460 JA460 CN460 JA460	3 MINI JACK (4P) 22 9P D-SUB SOCKET	AKN1073 AKP1213	SEMICONDUCTO IC5202		BR24L64F-W
JA460 JA460 CN460 JA460	3 MINI JACK (4P) 12 9P D-SUB SOCKET 1 DUAL 4P MINI DIN (S)	AKN1073 AKP1213 AKP1234	SEMICONDUCTO IC5202 IC5206		MB91305PMC-G-BN
JA460 JA460 CN460 JA460	3 MINI JACK (4P) 12 9P D-SUB SOCKET 1 DUAL 4P MINI DIN (S)	AKN1073 AKP1213 AKP1234	SEMICONDUCTO  IC5202 IC5206 IC5207		MB91305PMC-G-BN MBM29DL162TE70
JA460 JA460 CN460 JA460 JA460	3 MINI JACK (4P) 12 9P D-SUB SOCKET 1 DUAL 4P MINI DIN (S) 4 REMOTE CONTROL JACK	AKN1073 AKP1213 AKP1234	SEMICONDUCTO  IC5202 IC5206 IC5207 IC5210		MB91305PMC-G-BN MBM29DL162TE70 <sup>-1</sup> MM1522XU
JA460 JA460 CN460 JA460 JA460	3 MINI JACK (4P) 12 9P D-SUB SOCKET 1 DUAL 4P MINI DIN (S) 4 REMOTE CONTROL JACK 2 SW BLOCK]	AKN1073 AKP1213 AKP1234	SEMICONDUCTO  IC5202 IC5206 IC5207		MB91305PMC-G-BN MBM29DL162TE70
JA460 JA460 CN460 JA460 JA460	3 MINI JACK (4P) 12 9P D-SUB SOCKET 1 DUAL 4P MINI DIN (S) 4 REMOTE CONTROL JACK  2 SW BLOCK] ONDUCTORS	AKN1073 AKP1213 AKP1234 RKN1004	SEMICONDUCTO  IC5202 IC5206 IC5207 IC5210		MB91305PMC-G-BN MBM29DL162TE70 MM1522XU
JA460 JA460 JA460 JA460 JA460 IMR AV SEMIC	3 MINI JACK (4P) 12 9P D-SUB SOCKET 1 DUAL 4P MINI DIN (S) 4 REMOTE CONTROL JACK  2 SW BLOCK] ONDUCTORS 3	AKN1073 AKP1213 AKP1234 RKN1004	SEMICONDUCTO  IC5202 IC5206 IC5207 IC5210 IC5209 IC5203		MB91305PMC-G-BN MBM29DL162TE70 MM1522XU
JA460 JA460 CN460 JA460 JA460 JA460 IC480 IC480 IC480	3 MINI JACK (4P) 12 9P D-SUB SOCKET 1 DUAL 4P MINI DIN (S) 4 REMOTE CONTROL JACK  SW BLOCK] ONDUCTORS 3	AKN1073 AKP1213 AKP1234 RKN1004	SEMICONDUCTO  IC5202 IC5206 IC5207 IC5210 IC5209		MB91305PMC-G-BN MBM29DL162TE70 MM1522XU PQ200WNA1ZPH
JA460 JA460 CN460 JA460 JA460 JA460 IC480 IC480 Q4801	3 MINI JACK (4P) 12 9P D-SUB SOCKET 1 DUAL 4P MINI DIN (S) 4 REMOTE CONTROL JACK  2 SW BLOCK] ONDUCTORS 3 1 -Q4803,Q4805,Q4806	AKN1073 AKP1213 AKP1234 RKN1004	SEMICONDUCTO  IC5202 IC5206 IC5207 IC5210 IC5209 IC5203		MB91305PMC-G-BN MBM29DL162TE70 MM1522XU PQ200WNA1ZPH PST3628UR
JA460 JA460 CN460 JA460 JA460 JA460 IC480 IC480 Q4801	3 MINI JACK (4P) 12 9P D-SUB SOCKET 1 DUAL 4P MINI DIN (S) 4 REMOTE CONTROL JACK  SW BLOCK] ONDUCTORS 3	AKN1073 AKP1213 AKP1234 RKN1004 NJM12904V R2S11002FT	SEMICONDUCTO  IC5202 IC5206 IC5207 IC5210 IC5209  IC5203 IC5201,IC5204		MB91305PMC-G-BI MBM29DL162TE70 MM1522XU PQ200WNA1ZPH PST3628UR TC74VHC125FTS1
JA460 JA460 CN460 JA460 JA460 JEMR AV SEMIC IC480: IC480: Q4801 Q4811	3 MINI JACK (4P) 12 9P D-SUB SOCKET 1 DUAL 4P MINI DIN (S) 4 REMOTE CONTROL JACK  2 SW BLOCK] ONDUCTORS 3 1 -Q4803,Q4805,Q4806	AKN1073 AKP1213 AKP1234 RKN1004 NJM12904V R2S11002FT 2SA1586	IC5202 IC5206 IC5206 IC5207 IC5210 IC5209 IC5203 IC5201,IC5204 Q5202		MB91305PMC-G-BN MBM29DL162TE70 MM1522XU PQ200WNA1ZPH PST3628UR TC74VHC125FTS1 2SJ461A
JA460 JA460 CN460 JA460 JA460 JEMR AV SEMIC IC480: IC480: Q4801 Q4811	3 MINI JACK (4P) 12 9P D-SUB SOCKET 1 DUAL 4P MINI DIN (S) 4 REMOTE CONTROL JACK  SW BLOCK] ONDUCTORS 3 1 -Q4803,Q4805,Q4806 ,Q4812	AKN1073 AKP1213 AKP1234 RKN1004 NJM12904V R2S11002FT 2SA1586 2SA1586	IC5202 IC5206 IC5207 IC5210 IC5209 IC5203 IC5201,IC5204 Q5202 Q5204		MB91305PMC-G-BN MBM29DL162TE70 MM1522XU PQ200WNA1ZPH PST3628UR TC74VHC125FTS1 2SJ461A DTC124EUA
JA460 JA460 CN460 JA460 JA460 JA460 [MR AV SEMIC IC480: IC480: Q4801 Q4801	3 MINI JACK (4P) 12 9P D-SUB SOCKET 1 DUAL 4P MINI DIN (S) 4 REMOTE CONTROL JACK  SW BLOCK] ONDUCTORS 3 1 -Q4803,Q4805,Q4806 ,Q4812	AKN1073 AKP1213 AKP1234 RKN1004 NJM12904V R2S11002FT 2SA1586 2SA1586	IC5202 IC5206 IC5207 IC5210 IC5209 IC5203 IC5201,IC5204 Q5202 Q5204 Q5201		MB91305PMC-G-BI MBM29DL162TE70 MM1522XU PQ200WNA1ZPH PST3628UR TC74VHC125FTS1 2SJ461A DTC124EUA SM6K2
JA460 JA460 CN460 JA460 JA460 JA460 IC480: IC480: IC480: Q4801 Q4811 Q4807	3 MINI JACK (4P) 12 9P D-SUB SOCKET 1 DUAL 4P MINI DIN (S) 4 REMOTE CONTROL JACK  2 SW BLOCK] ONDUCTORS 3 1 -Q4803,Q4805,Q4806 ,Q4812 ,Q4810,Q4813,Q4814	AKN1073 AKP1213 AKP1234 RKN1004 NJM12904V R2S11002FT 2SA1586 2SA1586 2SC4116	IC5202 IC5206 IC5207 IC5210 IC5209 IC5203 IC5201,IC5204 Q5202 Q5204 Q5201		MB91305PMC-G-BN MBM29DL162TE70 MM1522XU PQ200WNA1ZPH PST3628UR TC74VHC125FTS1 2SJ461A DTC124EUA SM6K2 1SS355
JA460 JA460 CN460 JA460 JA460 JA460 [MR AV SEMIC IC480: IC480: Q4801 Q4811 Q4807	3 MINI JACK (4P) 12 9P D-SUB SOCKET 1 DUAL 4P MINI DIN (S) 4 REMOTE CONTROL JACK  2 SW BLOCK] ONDUCTORS 3 1 -Q4803,Q4805,Q4806 ,Q4812 ,Q4810,Q4813,Q4814 ,Q4815 ,Q4816	AKN1073 AKP1213 AKP1234 RKN1004 NJM12904V R2S11002FT 2SA1586 2SA1586 2SC4116 DTA124EUA	IC5202 IC5206 IC5207 IC5210 IC5209 IC5203 IC5201,IC5204 Q5202 Q5204 Q5201		MB91305PMC-G-BN MBM29DL162TE70 MM1522XU PQ200WNA1ZPH PST3628UR TC74VHC125FTS1 2SJ461A DTC124EUA SM6K2
JA460 JA460 CN460 JA460 JA460 JA460 [MR AV SEMIC IC480: IC480: Q4801 Q4811 Q4808 Q4808	3 MINI JACK (4P) 12 9P D-SUB SOCKET 1 DUAL 4P MINI DIN (S) 4 REMOTE CONTROL JACK  2 SW BLOCK] ONDUCTORS 3 1 -Q4803,Q4805,Q4806 ,Q4812 ,Q4810,Q4813,Q4814 ,Q4815 ,Q4816	AKN1073 AKP1213 AKP1234 RKN1004 NJM12904V R2S11002FT 2SA1586 2SA1586 2SC4116 DTA124EUA DTC124EUA	IC5202 IC5206 IC5207 IC5210 IC5209 IC5203 IC5201,IC5204 Q5202 Q5204 Q5201 D5203 D5201		MB91305PMC-G-BN MBM29DL162TE70 MM1522XU PQ200WNA1ZPH PST3628UR TC74VHC125FTS1 2SJ461A DTC124EUA SM6K2 1SS355
JA460 JA460 CN460 JA460 JA460 JA460 IC480: IC480: Q4801 Q4807 Q4808 Q4808 Q4809 D4801	3 MINI JACK (4P) 12 9P D-SUB SOCKET 1 DUAL 4P MINI DIN (S) 4 REMOTE CONTROL JACK  2 SW BLOCK] ONDUCTORS 3 1 -Q4803,Q4805,Q4806 ,Q4812 ,Q4810,Q4813,Q4814 ,Q4815 ,Q4816	AKN1073 AKP1213 AKP1234 RKN1004 NJM12904V R2S11002FT 2SA1586 2SA1586 2SC4116 DTA124EUA DTC124EUA	SEMICONDUCTO     IC5202     IC5206     IC5207     IC5210     IC5209     IC5203     IC5201, IC5204     Q5202     Q5204     Q5201     D5203     D5203     D5201     D5203     D5201		MB91305PMC-G-BI MBM29DL162TE70 MM1522XU PQ200WNA1ZPH PST3628UR TC74VHC125FTS1 2SJ461A DTC124EUA SM6K2 1SS355 SML-311UT
JA460 JA460 CN460 JA460 JA460 JA460  [MR AV SEMIC IC480: IC480: Q4801 Q4811 Q4807 Q4808 Q4808 D4801	3 MINI JACK (4P) 12 9P D-SUB SOCKET 1 DUAL 4P MINI DIN (S) 4 REMOTE CONTROL JACK  2 SW BLOCK] ONDUCTORS 3 1-Q4803,Q4805,Q4806 ,Q4812 ,Q4810,Q4813,Q4814 ,Q4815 ,Q4816	AKN1073 AKP1213 AKP1234 RKN1004 NJM12904V R2S11002FT 2SA1586 2SA1586 2SC4116 DTA124EUA DTC124EUA 1SS301	SEMICONDUCTO     IC5202     IC5206     IC5207     IC5210     IC5209     IC5203     IC5201, IC5204     Q5202     Q5204     Q5201     D5203     D5203     D5201     D5203     D5201     CAPACITORS     C5235	RS	MB91305PMC-G-BI MBM29DL162TE70 MM1522XU PQ200WNA1ZPH PST3628UR TC74VHC125FTS1 2SJ461A DTC124EUA SM6K2 1SS355 SML-311UT
JA460 JA460 CN460 JA460 JA460 JA460  [MR AV SEMIC IC480: IC480: Q4801 Q4811 Q4807 Q4808 Q4808 D4801  CAPAC C4834	3 MINI JACK (4P) 12 9P D-SUB SOCKET 1 DUAL 4P MINI DIN (S) 4 REMOTE CONTROL JACK  2 SW BLOCK] ONDUCTORS 3 1 -Q4803,Q4805,Q4806 ,Q4812 ,Q4810,Q4813,Q4814 ,Q4815 ,Q4816  EITORS	AKN1073 AKP1213 AKP1234 RKN1004 NJM12904V R2S11002FT 2SA1586 2SA1586 2SC4116 DTA124EUA DTC124EUA 1SS301	SEMICONDUCTO     IC5202     IC5206     IC5207     IC5210     IC5209     IC5203     IC5201, IC5204     Q5202     Q5204     Q5201     D5203     D5203     D5201     D5203     D5201     CAPACITORS     C5235     C5217, C5218, C5240	RS	MB91305PMC-G-BN MBM29DL162TE70 MM1522XU PQ200WNA1ZPH  PST3628UR TC74VHC125FTS1 2SJ461A DTC124EUA SM6K2  1SS355 SML-311UT  CCSRCH221J50 CCSSCH470J50
JA460 JA460 CN460 JA460 JA460 JA460 JA460  [MR AV SEMIC IC480: IC480: Q4801 Q4811 Q4807 Q4808 Q4808 C4808 C4808 C4808 C4808 C4808 C4808 C4808	3 MINI JACK (4P) 12 9P D-SUB SOCKET 1 DUAL 4P MINI DIN (S) 4 REMOTE CONTROL JACK  2 SW BLOCK] ONDUCTORS 3 1 -Q4803,Q4805,Q4806 ,Q4812 ,Q4810,Q4813,Q4814 ,Q4815 ,Q4816  EITORS  ,C4822 (10/6.3V)	AKN1073 AKP1213 AKP1234 RKN1004 NJM12904V R2S11002FT 2SA1586 2SA1586 2SC4116 DTA124EUA DTC124EUA 1SS301 ACG1122 ACG7046	SEMICONDUCTO     IC5202     IC5206     IC5207     IC5210     IC5209     IC5203     IC5201, IC5204     Q5202     Q5204     Q5201     D5203     D5203     D5201     D5203     D5201     CAPACITORS     C5235	RS	MB91305PMC-G-BN MBM29DL162TE70 MM1522XU PQ200WNA1ZPH  PST3628UR TC74VHC125FTS1 2SJ461A DTC124EUA SM6K2  1SS355 SML-311UT  CCSRCH221J50
JA460 JA460 CN460 JA460 JA460 JA460 JA460  [MR AV SEMIC IC480: IC480: Q4801 Q4811 Q4807 Q4808 Q4808 C4808 C4808 C4808 C4808 C4808 C4818 C4825	3 MINI JACK (4P) 12 9P D-SUB SOCKET 1 DUAL 4P MINI DIN (S) 4 REMOTE CONTROL JACK  2 SW BLOCK] ONDUCTORS 3 1-Q4803,Q4805,Q4806 ,Q4812 ,Q4810,Q4813,Q4814 ,Q4815 ,Q4816  EITORS  ,C4822 (10/6.3V) ,C4828,C4832,C4833	AKN1073 AKP1213 AKP1234 RKN1004  NJM12904V R2S11002FT 2SA1586 2SA1586 2SC4116  DTA124EUA DTC124EUA 1SS301  ACG1122 ACG7046 CCG1205	SEMICONDUCTO     IC5202     IC5206     IC5207     IC5210     IC5209     IC5203     IC5201, IC5204     Q5202     Q5204     Q5201     D5203     D5203     D5201     D5203     D5201     CAPACITORS     C5235     C5217, C5218, C5240	RS	MB91305PMC-G-BI MBM29DL162TE70 MM1522XU PQ200WNA1ZPH PST3628UR TC74VHC125FTS1 2SJ461A DTC124EUA SM6K2 1SS355 SML-311UT CCSRCH221J50 CCSSCH470J50
JA460 JA460 CN460 JA460 JA460 JA460 JA460 JA460  [MR AV SEMIC IC480: IC480: Q4801 Q4811 Q4807 Q4808 Q4808 C4808 C4808 C4808 C4818 C4825	3 MINI JACK (4P) 12 9P D-SUB SOCKET 1 DUAL 4P MINI DIN (S) 4 REMOTE CONTROL JACK  2 SW BLOCK] ONDUCTORS 3 1 -Q4803,Q4805,Q4806 ,Q4812 ,Q4810,Q4813,Q4814 ,Q4815 ,Q4816  EITORS  ,C4822 (10/6.3V)	AKN1073 AKP1213 AKP1234 RKN1004  NJM12904V R2S11002FT 2SA1586 2SA1586 2SC4116  DTA124EUA DTC124EUA 1SS301  ACG1122 ACG7046 CCG1205 CCSRCH181J50	SEMICONDUCTO     IC5202     IC5206     IC5207     IC5210     IC5209     IC5203     IC5201, IC5204     Q5202     Q5204     Q5201     D5203     D5203     D5201     D5203     D5201     CAPACITORS     C5235     C5217, C5218, C5240     C5238	0-C5249	MB91305PMC-G-BN MBM29DL162TE70 MM1522XU PQ200WNA1ZPH  PST3628UR TC74VHC125FTS1 2SJ461A DTC124EUA SM6K2  1SS355 SML-311UT  CCSRCH221J50 CCSSCH470J50 CEHVKW100M35
JA460 JA460 CN460 JA460 JA460 JA460 JA460 JA460  [MR AV SEMIC IC480: IC480: Q4801 Q4811 Q4807 Q4808 Q4808 C4808	3 MINI JACK (4P) 12 9P D-SUB SOCKET 1 DUAL 4P MINI DIN (S) 4 REMOTE CONTROL JACK  2 SW BLOCK] ONDUCTORS 3 1-Q4803,Q4805,Q4806 ,Q4812 ,Q4810,Q4813,Q4814 ,Q4815 ,Q4816  EITORS  ,C4822 (10/6.3V) ,C4828,C4832,C4833	AKN1073 AKP1213 AKP1234 RKN1004  NJM12904V R2S11002FT 2SA1586 2SA1586 2SC4116  DTA124EUA DTC124EUA 1SS301  ACG1122 ACG7046 CCG1205	SEMICONDUCTO     IC5202     IC5206     IC5207     IC5210     IC5209     IC5203     IC5201, IC5204     Q5202     Q5204     Q5201     D5203     D5203     D5201     D5203     D5201     CAPACITORS     C5235     C5217, C5218, C5240     C5238     C5201	0-C5249	MB91305PMC-G-BN MBM29DL162TE70 MM1522XU PQ200WNA1ZPH  PST3628UR TC74VHC125FTS1 2SJ461A DTC124EUA SM6K2  1SS355 SML-311UT  CCSRCH221J50 CCSSCH470J50 CEHVKW100M35 CEHVKW101M6R3
JA460 JA460 CN460 JA460 JA460 JA460 JA460 JA460  [MR AV SEMIC IC480: IC480: Q4801 Q4811 Q4807 Q4808 Q4808 C4808	3 MINI JACK (4P) 12 9P D-SUB SOCKET 1 DUAL 4P MINI DIN (S) 4 REMOTE CONTROL JACK  2 SW BLOCK] ONDUCTORS 3 1-Q4803,Q4805,Q4806 ,Q4812 ,Q4810,Q4813,Q4814 ,Q4815 ,Q4816  EITORS  ,C4822 (10/6.3V) ,C4828,C4832,C4833 ,C4850	AKN1073 AKP1213 AKP1234 RKN1004  NJM12904V R2S11002FT 2SA1586 2SA1586 2SC4116  DTA124EUA DTC124EUA 1SS301  ACG1122 ACG7046 CCG1205 CCSRCH181J50	SEMICONDUCTO     IC5202     IC5206     IC5207     IC5210     IC5209     IC5203     IC5201, IC5204     Q5202     Q5204     Q5201     D5203     D5203     D5201     D5203     D5201     CAPACITORS     C5235     C5217, C5218, C5240     C5238     C5201     C5261-C5263, C5276	0-C5249	MB91305PMC-G-BN MBM29DL162TE70 MM1522XU PQ200WNA1ZPH  PST3628UR TC74VHC125FTS1 2SJ461A DTC124EUA SM6K2  1SS355 SML-311UT  CCSRCH221J50 CCSSCH470J50 CEHVKW100M35 CEHVKW101M6R3
JA460 JA460 CN460 JA460 JA460 JA460 JA460 JA460  [MR AV SEMIC IC480: IC480: Q4801 Q4811 Q4807 Q4808 Q4808 C4808	3 MINI JACK (4P) 12 9P D-SUB SOCKET 1 DUAL 4P MINI DIN (S) 4 REMOTE CONTROL JACK  2 SW BLOCK] ONDUCTORS 3 1 -Q4803,Q4805,Q4806 ,Q4812 ,Q4810,Q4813,Q4814 ,Q4815 ,Q4816  EITORS  ,C4822 (10/6.3V) ,C4828,C4832,C4833 ,C4850 ,C4855	AKN1073 AKP1213 AKP1234 RKN1004  NJM12904V R2S11002FT 2SA1586 2SA1586 2SC4116  DTA124EUA DTC124EUA 1SS301  ACG1122 ACG7046 CCG1205 CCSRCH181J50	SEMICONDUCTO     IC5202     IC5206     IC5207     IC5210     IC5209     IC5203     IC5201, IC5204     Q5202     Q5204     Q5201     D5203     D5203     D5201     D5203     D5201     CAPACITORS     C5235     C5217, C5218, C5240     C5238     C5201     C5261-C5263, C5276     C5216, C5233	0-C5249	MB91305PMC-G-BN MBM29DL162TE70 MM1522XU PQ200WNA1ZPH  PST3628UR TC74VHC125FTS1 2SJ461A DTC124EUA SM6K2  1SS355 SML-311UT  CCSRCH221J50 CCSSCH470J50 CEHVKW100M35 CEHVKW101M6R3 CKSSYB102K50  CKSSYB103K16
JA460  [MR AV SEMIC IC480: IC480: Q4801 Q4811 Q4807 Q4808 Q4809 D4801  C4834 C4818 C4825 C4847 C4852 C4819	3 MINI JACK (4P) 12 9P D-SUB SOCKET 1 DUAL 4P MINI DIN (S) 4 REMOTE CONTROL JACK  2 SW BLOCK] ONDUCTORS 3 1 -Q4803,Q4805,Q4806 ,Q4812 ,Q4810,Q4813,Q4814 ,Q4815 ,Q4816  EITORS  ,C4822 (10/6.3V) ,C4828,C4832,C4833 ,C4850 ,C4855	AKN1073 AKP1213 AKP1234 RKN1004  NJM12904V R2S11002FT 2SA1586 2SA1586 2SC4116  DTA124EUA DTC124EUA 1SS301  ACG1122 ACG7046 CCG1205 CCSRCH181J50 CCSRCH681J50	SEMICONDUCTO     IC5202     IC5206     IC5207     IC5210     IC5209     IC5203     IC5201, IC5204     Q5202     Q5204     Q5201     D5203     D5203     D5201     D5203     D5201     CAPACITORS     C5235     C5217, C5218, C5240     C5238     C5201     C5261-C5263, C5276     C5216, C5233     C5215	0-C5249	MB91305PMC-G-BN MBM29DL162TE70 MM1522XU PQ200WNA1ZPH  PST3628UR TC74VHC125FTS1 2SJ461A DTC124EUA SM6K2  1SS355 SML-311UT  CCSRCH221J50 CCSSCH470J50 CEHVKW100M35 CEHVKW101M6R3 CKSSYB102K50  CKSSYB103K16 CKSSYB472K25
JA460 JA460 CN460 JA460 JA460 JA460 JA460 JA460  [MR AV SEMIC IC480: IC480: Q4801 Q4807 Q4808 Q4809 D4801  CAPAC C4834 C4818 C4825 C4847 C4852 C4819 C4802	3 MINI JACK (4P) 12 9P D-SUB SOCKET 1 DUAL 4P MINI DIN (S) 4 REMOTE CONTROL JACK  2 SW BLOCK] ONDUCTORS 3 1 -Q4803,Q4805,Q4806 ,Q4812 ,Q4810,Q4813,Q4814 ,Q4815 ,Q4816  2 ITORS 3,C4822 (10/6.3V) ,C4828,C4832,C4833 ,C4850 ,C4804,C4806,C4807	AKN1073 AKP1213 AKP1234 RKN1004  NJM12904V R2S11002FT 2SA1586 2SA1586 2SC4116  DTA124EUA DTC124EUA 1SS301  ACG1122 ACG7046 CCG1205 CCSRCH181J50 CCSRCH681J50  CEHVKW101M6R3 CKSRYB105K10	SEMICONDUCTO     IC5202     IC5206     IC5207     IC5210     IC5209     IC5203     IC5201, IC5204     Q5202     Q5204     Q5201     D5203     D5203     D5201     D5203     D5201     CAPACITORS     C5235     C5217, C5218, C5240     C5238     C5201     C5261-C5263, C5276     C5216, C5233     C5215     C5253	0-C5249	MB91305PMC-G-BI MBM29DL162TE70 MM1522XU PQ200WNA1ZPH  PST3628UR TC74VHC125FTS1 2SJ461A DTC124EUA SM6K2  1SS355 SML-311UT  CCSRCH221J50 CCSSCH470J50 CEHVKW100M35 CEHVKW101M6R3 CKSSYB102K50  CKSSYB103K16 CKSSYB472K25 CKSSYF103Z50
JA460 JA460 JA460 CN460 JA460 JA460 JA460 JA460 JA460  [MR AV SEMIC IC480: IC480: Q4801 Q4807 Q4808 Q4809 D4801  CAPAC C4834 C4818 C4825 C4847 C4852 C4819 C4802 C4810	3 MINI JACK (4P) 12 9P D-SUB SOCKET 1 DUAL 4P MINI DIN (S) 4 REMOTE CONTROL JACK  2 SW BLOCK] ONDUCTORS 3 1 -Q4803,Q4805,Q4806 ,Q4812 ,Q4810,Q4813,Q4814 ,Q4815 ,Q4816  2 ITORS 3,C4822 (10/6.3V) ,C4828,C4832,C4833 ,C4850 ,C4804,C4806,C4807 ,C4811,C4813,C4817	AKN1073 AKP1213 AKP1234 RKN1004  NJM12904V R2S11002FT 2SA1586 2SA1586 2SC4116  DTA124EUA DTC124EUA 1SS301  ACG1122 ACG7046 CCG1205 CCSRCH181J50 CCSRCH681J50  CEHVKW101M6R3 CKSRYB105K10 CKSRYB105K10	SEMICONDUCTO     IC5202     IC5206     IC5207     IC5210     IC5209     IC5203     IC5201, IC5204     Q5202     Q5204     Q5201     D5203     D5203     D5201     D5203     D5201     CAPACITORS     C5235     C5217, C5218, C5240     C5238     C5201     C5261-C5263, C5276     C5261-C5263     C5215     C5253     C5202-C5214, C5219     C5203-C5204-C5219     C5203-C5204-C5219     C5203-C5219     C5	0-C5249 0-C5222-C5232	MB91305PMC-G-BN MBM29DL162TE70 MM1522XU PQ200WNA1ZPH  PST3628UR TC74VHC125FTS1 2SJ461A DTC124EUA SM6K2  1SS355 SML-311UT  CCSRCH221J50 CCSSCH470J50 CEHVKW100M35 CEHVKW101M6R3 CKSSYB102K50  CKSSYB103K16 CKSSYB472K25 CKSSYF103Z50 CKSSYF104Z16
JA460 JA460 JA460 CN460 JA460 JA460 JA460 JA460  [MR AV SEMIC IC480: G4801 G4807 G4808 G4808 G4808 G4808 G4818 G4825 G4819 G4802 G4810 G4820	3 MINI JACK (4P) 12 9P D-SUB SOCKET 1 DUAL 4P MINI DIN (S) 4 REMOTE CONTROL JACK  2 SW BLOCK] ONDUCTORS 3 1 -Q4803,Q4805,Q4806 ,Q4812 ,Q4810,Q4813,Q4814 ,Q4815 ,Q4816  2 ITORS 3 C4822 (10/6.3V) ,C4828,C4832,C4833 ,C4850 ,C4804,C4806,C4807 ,C4811,C4813,C4817 ,C4821,C4823,C4824,C4827	AKN1073 AKP1213 AKP1234 RKN1004  NJM12904V R2S11002FT 2SA1586 2SA1586 2SC4116  DTA124EUA DTC124EUA 1SS301  ACG1122 ACG7046 CCG1205 CCSRCH181J50 CCSRCH681J50  CEHVKW101M6R3 CKSRYB105K10 CKSRYB105K10 CKSRYB105K10 CKSRYB105K10	SEMICONDUCTO     IC5202     IC5206     IC5207     IC5210     IC5209     IC5203     IC5201, IC5204     Q5202     Q5204     Q5201     D5203     D5203     D5201     D5203     D5201     CAPACITORS     C5235     C5217, C5218, C5240     C5238     C5201     C5261-C5263, C5276     C5216, C5233     C5215     C5253	0-C5249 0-C5222-C5232	MB91305PMC-G-BN MBM29DL162TE70 MM1522XU PQ200WNA1ZPH  PST3628UR TC74VHC125FTS1 2SJ461A DTC124EUA SM6K2  1SS355 SML-311UT  CCSRCH221J50 CCSSCH470J50 CEHVKW100M35 CEHVKW101M6R3 CKSSYB102K50  CKSSYB103K16 CKSSYB472K25 CKSSYF103Z50
JA460 JA460 JA460 CN460 JA460 JA460 JA460 JA460 JA460  [MR AV SEMIC IC480: G4801 Q4807 Q4808 Q4808 D4801 CAPAC C4834 C4818 C4825 C4847 C4852 C4810 C4820 C4820	3 MINI JACK (4P) 12 9P D-SUB SOCKET 1 DUAL 4P MINI DIN (S) 4 REMOTE CONTROL JACK  2 SW BLOCK] ONDUCTORS 3 1 -Q4803,Q4805,Q4806 ,Q4812 ,Q4810,Q4813,Q4814 ,Q4815 ,Q4816  2 ITORS 3,C4822 (10/6.3V) ,C4828,C4832,C4833 ,C4850 ,C4804,C4806,C4807 ,C4811,C4813,C4817	AKN1073 AKP1213 AKP1234 RKN1004  NJM12904V R2S11002FT 2SA1586 2SA1586 2SC4116  DTA124EUA DTC124EUA 1SS301  ACG1122 ACG7046 CCG1205 CCSRCH181J50 CCSRCH681J50  CEHVKW101M6R3 CKSRYB105K10 CKSRYB105K10	SEMICONDUCTO     IC5202     IC5206     IC5207     IC5210     IC5209     IC5203     IC5201, IC5204     Q5202     Q5204     Q5201     D5203     D5203     D5201     D5203     D5201     CAPACITORS     C5235     C5217, C5218, C5240     C5238     C5201     C5261-C5263, C5276     C5261-C5263     C5215     C5253     C5202-C5214, C5219     C5203-C5204-C5219     C5203-C5204-C5219     C5203-C5219     C5	0-C5249 0-C5222-C5232	MB91305PMC-G-BN MBM29DL162TE70 MM1522XU PQ200WNA1ZPH  PST3628UR TC74VHC125FTS1 2SJ461A DTC124EUA SM6K2  1SS355 SML-311UT  CCSRCH221J50 CCSSCH470J50 CEHVKW100M35 CEHVKW101M6R3 CKSSYB102K50  CKSSYB103K16 CKSSYB472K25 CKSSYF103Z50 CKSSYF104Z16

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ark No. Description	Part No.	Mark No. Description	Part No.	
ESISTORS		RESISTORS		
R5262,R5268	ACN1248	R6010,R6068,R6072	ACN1246	
R5205,R5213	RAB4CQ101J	R6065,R6073	BCN1067	
R5283	RS1/16S1201F	R6007,R6030,R6071	RAB4CQ220J	
R5282	RS1/16S4301F	R6063	RS1/16SS1001D	
R5273	RS1/16S8201F	R6038,R6039,R6049	RS1/16SS2000F	
Other Resistors	RS1/16S###J	R6054 R6052	RS1/16SS2201D RS1/16SS6200D	
THERS		Other Resistors	RS1/16S###J	
CN5202 50P CONNECTOR	AKM1201			
K5201,K5202 TEST PIN	AKX9002	<u>OTHERS</u>		
X5201 CERAMIC RESONATOR	ASS1178	X6002 CRYSTAL	ASS1191	
CCD UCOM BLOCK]		[MR ADC BLOCK]		
EMICONDUCTORS		SEMICONDUCTORS		
IC5603	FMS6410CS	IC6201	AD9985KSTZ-110	
IC5602	PEG150A			
Q5601,Q5605	2SA1586	COILS AND FILTERS		
			CCG1162	
<u>APACITORS</u>				
C5612,C5614	CCG1205	CAPACITORS		
C5603,C5609	CCSRCH331J50	C6205,C6209	CKSSYB104K10	
C5618,C5619	CCSRCH5R0C50	C6207,C6210,C6218	CKSSYB473K16	
C5611,C5613	CCSSCH221J50	C6202	CKSSYB822K16	
C5620	CCSSCK2R0C50	C6201	CKSSYB823K10	
		C6203,C6204,C6206,C6208	CKSSYF104Z16	
C5605,C5617	CEHVKW100M16	33233,33231,33230,33230	00011 101210	
C5622,C5623	CKSRYB105K10	C6211,C6212,C6215-C6217	CKSSYF104Z16	
C5606,C5607	CKSSYB102K50	C6222-C6224	CKSSYF104Z16	
C5602,C5604	CKSSYB104K10	OULL OULT	3.3311 10±210	
C5621	CKSSYB153K16	RESISTORS		
	-		DCN1067	
C5608,C5610,C5615,C5616,C5624	CKSSYF104Z16	R6213,R6218,R6223	BCN1067	
-,	: <del>-</del> :	R6202	RS1/16SS2701F	
<u>SISTORS</u>		Other Resistors	RS1/16S###J	
R5631	RAB4CQ101J			
R5633	RAB4CQ101J	IMP LIDER BY COLG		
R5601-R5603,R5606-R5609	RAB4CQ102J RAB4CQ473J	[MR HDMI BLOCK]		
R5614-R5617,R5621-R5623	RAB4CQ473J	<u>SEMICONDUCTORS</u>		
R5657,R5658	RAB4CQ473J	IC6402,IC6403	BR24L02FJ-W	
1 10007 ,1 10000	11/1040/4/30	IC6405	PCM1754DBQ	
Other Resistors	RS1/16S###J	IC6404	SII9021CTU	
Office Legistots	1101/100###J	Q6416,Q6417	2SA1586	
THEDS		Q6412,Q6414	DTA124EUA	
THERS	A004450			
X5601 CERAMIC RESONATOR	ASS1159	Q6413,Q6415	DTC124EUA	
		Q6402,Q6405	HN1K02FU	
DVDEO DI COIG		Q6403,Q6404	RN1902	
IR VDEC BLOCK]		D6404,D6408	1SS301	
MICONDUCTORS		D6403,D6407	UDZS6R8(B)	
IC6002	K4S161622H-TC60	·	· /	
IC6003	UPD64015GM-UEU	COILS AND FILTERS		
		↑ F6401 EMI FILTER	CCG1162	
OILS AND FILTERS		COLOTO LIVILI ILI LI L	0001102	
F6001,F6002,F6010,F6011	CCG1162	CADACITODS		
EMI FILTER	000110 <u>2</u>	CAPACITORS	ACC7040	
		C6491 (10/6.3V)	ACG7046	
ADACITODS		C6401,C6403,C6405,C6409,C6411	CCSSCH101J50	
APACITORS	ACC704C	C6419,C6426,C6428,C6430,C6432	CCSSCH101J50	
C6056,C6088	ACG7046	C6434,C6435,C6438,C6440,C6442	CCSSCH101J50	
C6078,C6083	CCSSCH8R0D50	C6444,C6446,C6448,C6449,C6454	CCSSCH101J50	
C6062,C6065,C6069,C6071,C6079	CKSSYB103K16	00450 00450 00404 00400 00400	0000011404 150	
C6046,C6058,C6063,C6064	CKSSYB104K10	C6456,C6459,C6464,C6466,C6468	CCSSCH101J50	
C6066,C6067,C6070,C6072-C6077	CKSSYB104K10	C6470,C6472,C6474,C6476,C6478	CCSSCH101J50	
		C6480,C6482	CCSSCH101J50	
	CKSSYB104K10	C6462,C6463	CCSSCH120J50	
C6080-C6082,C6084,C6085			051000000000000000000000000000000000000	
C6080-C6082,C6084,C6085 C6001-C6008,C6012-C6028	CKSSYF104Z16	C6425,C6484	CEHVKW220M6R3	
	CKSSYF104Z16 CKSSYF104Z16	C6425,C6484	CEHVKW220M6R3	

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	Mark No. Description	Part No.	Mark No. Description	Part No.
	C6402,C6404,C6406,C6408,C6410 C6412,C6414,C6416,C6418	CKSSYF104Z16 CKSSYF104Z16	C6839-C6862	CKSSYF104Z16
	C6420-C6424,C6427,C6429,C6431	CKSSYF104Z16	RESISTORS	
Α	C6433,C6436,C6437,C6439,C6441	CKSSYF104Z16	R6833,R6838	ACN1246
^	C6443,C6445,C6447,C6450-C6453	CKSSYF104Z16	,	
	C6443,C6445,C6447,C6450-C6455	CN331F104Z16	R6841,R6844-R6847	ACN1251
	00455 00457 00450 00400 00404	01/00//5404740	R6813,R6814,R6816,R6820,R6821	BCN1067
	C6455,C6457,C6458,C6460,C6461	CKSSYF104Z16	R6823,R6825,R6827,R6828	BCN1067
	C6465,C6467,C6469,C6471,C6473	CKSSYF104Z16	R6818	BCN1071
	C6475,C6477,C6479,C6481,C6483	CKSSYF104Z16		
	C6490	CKSSYF104Z16	R6832	RAB4CQ101J
-			R6817	RAB4CQ470J
	<u>RESISTORS</u>		Other Resistors	RS1/16S###J
	R6418,R6419,R6421	ACN1251		
	R6414	RAB4CQ100J		
	R6465	RAB4CQ103J	[MR MULTI BLOCK]	
	R6438	RAB4CQ470J		
В	R6416	RAB4CQ680J	<u>SEMICONDUCTORS</u>	
	N0410	NAD4CQ0000	IC7002	MBM29DL162TE70TN
	Other Desistans	DC4/4CC###1	IC7001	PEG121B
	Other Resistors	RS1/16S###J	IC7004	TC74VHC08FTS1
	<u>OTHERS</u>		COILS AND FILTERS	
	JA6401,JA6402	AKP1278	↑ F7001-F7006 EMI FILTER	CCG1162
	HDMI CONNECTOR		(1) / VUI-1 / VUO EIVII FILIER	0001102
-	X6401 CRYSTAL	ASS1192	0404017000	
			<u>CAPACITORS</u>	
			C7052	CKSSYB102K50
	IMP DOEL BLOCK!		C7006,C7008,C7010-C7017,C7019	CKSSYF104Z16
	[MR DSEL BLOCK]		C7021,C7023,C7024,C7026-C7029	CKSSYF104Z16
	<u>SEMICONDUCTORS</u>		C7032-C7034,C7036,C7037	CKSSYF104Z16
С	IC6601	PD6523A	C7039-C7042,C7044,C7046-C7048	CKSSYF104Z16
	IC6602	TC74LCX125FT	0.000 0.01=,0.01,0.010 0.010	0.100.1.10.2.10
			C7050	CKSSYF104Z16
	COILS AND FILTERS		07000	CROSTI 104210
	1 F6604 CHIP BEAD FILTER	ATX1058	RESISTORS	
	⚠ F6601-F6603 EMI FILTER	CCG1162		10111010
	ET 0001-1 0003 LIVIT ILILA	0001102	R7011,R7013,R7024,R7032,R7036	ACN1246
	CARACITORC		R7062-R7064	ACN1251
	<u>CAPACITORS</u>		R7015,R7023	RAB4CQ101J
	C6632 (10/6.3V)	ACG7046	R7016,R7018,R7070	RAB4CQ103J
	C6604	CCSRCH221J50	R7060	RAB4CQ680J
	C6631	CKSSYB102K50		
	C6601-C6603,C6607-C6610	CKSSYF104Z16	Other Resistors	RS1/16S###J
_	C6613-C6617,C6619,C6621-C6623	CKSSYF104Z16		
D				
	C6625-C6627,C6629,C6630	CKSSYF104Z16	[MR IF BLOCK]	
	<u>RESISTORS</u>		<u>SEMICONDUCTORS</u>	
		4014054	IC7202	SII170BCLG64
	R6603-R6605	ACN1251	IC7201,IC7203	TC74VHC08FTS1
	R6611,R6614,R6618	BCN1071	Q7206	2SA1586
	R6613,R6620	RAB4CQ101J	Q7203,Q7207,Q7210	DTA124EUA
	Other Resistors	RS1/16S###J	Q7211	DTC124EUA
	<u>OTHERS</u>		Q7209	HN1C01FU
	X6601 CRYSTAL	ASS1194	Q7201	RN1902
			D7202-D7206	1SS355
Е			20_ 300	.0000
-	IMP ID BI OCKI		COILS AND EILTEDS	
	[MR IP BLOCK]		COILS AND FILTERS	ATELOGO
	<u>SEMICONDUCTORS</u>			ATF1209
	IC6801,IC6802	K4S643232H-TC60	L7201 CHIP FERRITE BEAD	BTX1042
	IC6803	PE5504B		CCG1162
	COILS AND FILTERS		CAPACITORS	
-	↑ L6801-L6804 CHIP BEAD FILTER	BTX1042	C7203,C7207,C7208 (10/6.3V)	ACG7046
	LUOUI-LUOU4 UNIT DEAD FILIEK	DIA1044	C7226,C7227	CCSSCH100D50
	0.4.04.04.05.0		C7201,C7204,C7211,C7213,C7214	CCSSCH101J50
	<u>CAPACITORS</u>			CCSSCH101J50 CCSSCH101J50
	C6801 (10/6.3V)	ACG7046	C7216,C7217,C7219,C7221	
	C6863	CKSSYB102K50	C7223	CKSSYB102K50
F	C6802,C6804,C6807-C6809,C6813	CKSSYF104Z16	07000 07017 07007 5777 577	01/00/75 /= //
•	C6815-C6817,C6821,C6824-C6828	CKSSYF104Z16	C7209,C7215,C7220,C7225,C7228	CKSSYB471K50
	C6830,C6831,C6834,C6835	CKSSYF104Z16	C7202,C7205,C7206,C7210,C7212	CKSSYF104Z16
	, 1111, 1110., 0000., 0000		C7218,C7224	CKSSYF104Z16
	30	PDP-R	20611	
,		FDF-R	1000	

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Mark No. Description RESISTORS	Part No.	Mark No. Description RESISTORS	Part No.
R7215 R7216	RAB4CQ101J RS1/16S5100F	All Resistors	RS1/16S###J
Other Resistors	RS1/16S###J	OTHERS.	
THERE		CN8001 CONNECTOR	CKS3826
THERS CN7201 SOCKET (20P)	AKP1226		
CN7202 DVI SOCKET (24P)	AKP1250		
		FRONT ASSY	
MR RGB SW BLOCK]		SEMICONDUCTORS IC7801	BR24C21FJ
<u>SEMICONDUCTORS</u>	N. W. 4. 400 A. 4. 4	IC7802	TC74VHC08FTS1
IC4701 IC4702	NJM12904V R2S11001FT	Q7801-Q7803,Q7806-Q7808	2SC4116
IC4703	TC7WH123FU	Q7804,Q7805 D7813	DTC124EUA 1SS301
Q4706-Q4709	2SA1586	27010	100001
Q4703	2SC4116	D7805-D7807,D7816-D7818	1SS302
Q4704	2SC5233	D7801-D7803 D7811,D7812,D7814,D7815	UDZS5R1(B) UDZS5R6(B)
Q4701	DTA124EUA	D7811,D7812,D7814,D7815 D7804,D7808	UDZS5R6(B) UDZS9R1(B)
Q4702	DTC124EUA	•	
Q4705 D4701,D4708	HN1A01FU 1SS301	<u>CAPACITORS</u>	
D4701,D4700	100001	C7821,C7827 (10/6.3V)	ACG7046
CAPACITORS		C7829,C7830 (10/6.3V) C7822,C7823	ACG7046 CCSRCH220J50
C4737,C4741,C4755 (10/6.3V)	ACG7046	C7841,C7844,C7846	CEHVKW100M16
C4702	CCSRCH331J50	C7803,C7804	CKSRYB103K50
C4725,C4727 C4728	CCSRCH680J50 CEHVKW101M6R3	C7805,C7808,C7809,C7813	CKSRYB105K10
C4705	CEHVKW220M16	C7805,C7808,C7809,C7813 C7831,C7832,C7834,C7839,C7842	CKSRYB105K10
0.474.0	01/00/05/05/05	C7845	CKSRYB105K10
C4711-C4716,C4723,C4729-C4731 C4734,C4738,C4739,C4743,C4754	CKSRYB105K10 CKSRYB105K10	C7801	CKSRYB473K16
C4706	CKSRYB224K10	C7802,C7820,C7824,C7840,C7843	CKSSYF104Z16
C4703	CKSRYB473K16	C7847,C7848	CKSSYF104Z16
C4717-C4721,C4724,C4726,C4732	CKSSYB103K16	C7819,C7835,C7849	DCH1165
C4735,C4736,C4742,C4750-C4753	CKSSYB103K16	RESISTORS	
C4707-C4710,C4740,C4744,C4745	CKSSYF104Z16	R7801,R7803,R7809,R7823-R7825	RS1/16S75R0F
C4749 C4701,C4704	CKSSYF104Z16 DCH1165	R7857-R7859	RS1/16S75R0F
	20	Other Resistors	RS1/16S###J
RESISTORS	D04/406/2225	<u>OTHERS</u>	
R4756 R4746	RS1/16S1800F RS1/16S5600F	JA7803 PIN JACK (3P)	AKB1303
R4746 R4728-R4730,R4748-R4750	RS1/16S75R0F	JA7805 PIN JACK (3P)	AKB1305
Other Resistors	RS1/16S###J	CN7803 12P FFC CONNECTOR CN7804 50P CONNECTOR	AKM1233 AKM1236
OTHERO		CN7804 30F CONNECTOR CN7806 15P D-SUB SOCKET	AKP1214
OTHERS JA4701 PIN JACK (9P)	AKB1329	IA7001 AD MINII DINI COOKET (C)	AL/D1000
	ANDIO23	JA7801 4P MINI DIN SOCKET (S)	AKP1238
LED ASSY		POWER SUPPLY UNIT	
SEMICONDUCTORS Q8003	DTA124EUA	POWER SUPPLY Unit has no service par	rt.
Q8003 Q8004	DTC124EUA		
Q8002	RN2902		
D8001	SML-311DT		
D8003	SML-311UT		
D8004	SML310BA1T		
SWITCHES AND RELAYS S8001-S8007	ASG1088		
CAPACITORS	CCSDCU101 IE0		
C8005,C8006 C8001,C8007	CCSRCH101J50 CKSSYF104Z16		
	3.103101210		

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# 6. ADJUSTMENT

1. At shipment, the unit is adjusted to its best conditions. Normally, it is not necessary to readjust even if an assembly is replaced. Replacement of individual components on the circuitboard can cause malfunction and/or failure. If replacement is necessary, the assembly must be replaced.

3

2. Use a stable AC power supply.

# 6.1 POSSIBLE CASES WHERE READJUSTMENT IS REQUIRED

## ■ When any of the following assemblies is replaced

POWER SUPPLY Unit No adjustment required MR MAIN Assy No adjustment required MR DTB Assy No adjustment required However, HOST ID is changed. Please tell a customer about new HOST ID. Refer to the following note and instruction manual. PC Card Unit No adjustment required Other assemblies No adjustment required

## ■ When any part in the following assemblies is replaced

POWER SUPPLY Unit replacement is allowed. Replacement of components IC4801, IC5202, IC5207, MR MAIN Assy

IC6003 and IC6201 on the circuitboard can cause malfunction and/or failure. If replacement is necessary, the assembly must be replaced.

The assembly must be replaced as a unit, and no part

The assembly must be replaced as a unit, and no part MR DTB Assy replacement is allowed.

The assembly must be replaced as a unit, and no part PC Card Unit replacement is allowed.

Other assemblies No adjustment required

# Adjustment items

- 1 Audio Level Adjustment
- ② Audio Level Adjustment
- 3 MSP Adjustment
- 4 MSP Adjustment

#### Note: Checking the Cable Card ID

The Media Receiver has a slot for a cable card that is used for managing your information by the cable TV company. The following procedure allows you to check your Cable Card ID and the Host ID.

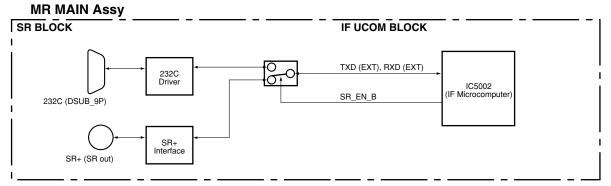
- 1. Press HOME MENU.
- 2. Select "Tuner Setup". ( ♠/ ♦ then ENTER)
- 3. Select "Channel Setup". (←/→ then ENTER)
- 4. Select "POD ID". (♠/♦)
  - The Host ID and Cable Card ID appear.
- 5. Press HOME MENU to exit the menu.

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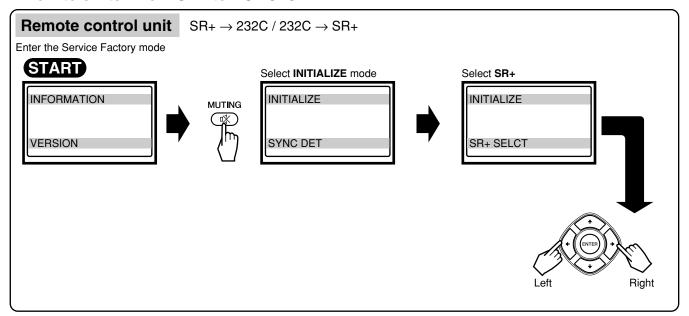
6.2 USING RS-232C COMMANDS

For the PDP-4360HD and PDP-5060HD series Plasma Displays, the circuitry is structured as shown in the diagram below to support the SR+ system. Controlling with either the SR+ system or RS-232C commands can be selected. As the SR+ system is selected at shipment, to control with RS-232C commands in servicing it is necessary to switch the paths. After servicing, be sure to return the setting to the SR+ system.

# Rough diagram of switching between SR+ and RS-232C



#### How to switch from SR+ to RS-232C



Tips: How to change the SR+/RS-232C setting without entering Service Factory mode

Hold the **VOLUME** ⊿+ or ⊿- key on the remote control unit pressed for 3-10 seconds during Standby mode. Then within 3 seconds after the key is released, hold the **2-screen □** key on the remote control unit pressed for 3-10 seconds. Then within 3 seconds after the key is released, use the SET key on the remote control unit to set to RS-232C (the baud rate last selected is chosen) or the **HOME MENU** key to set to SR+.

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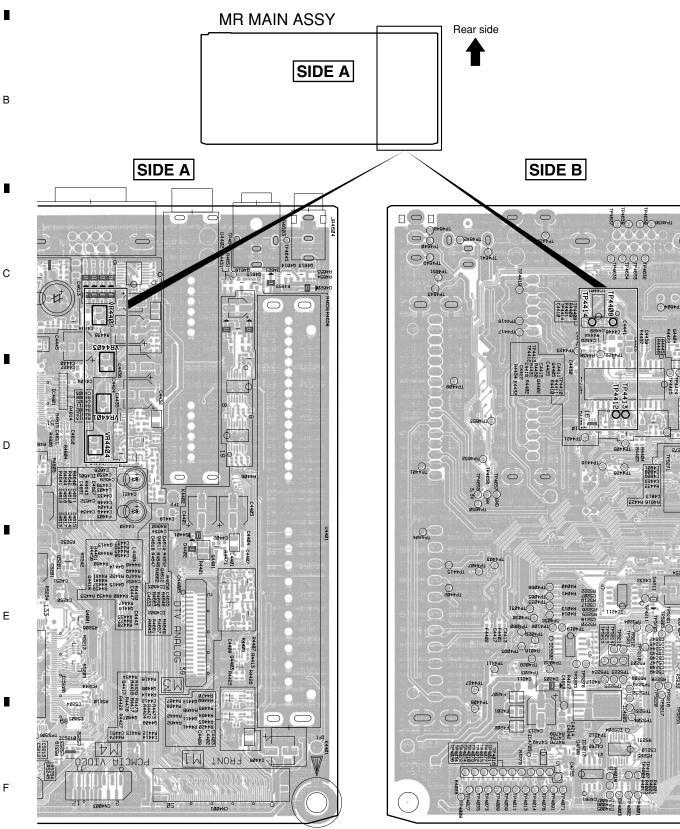
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If readjustment is necessary because of adjustment error at shipment, perform adjustments as shown below.

## Adjustment Points

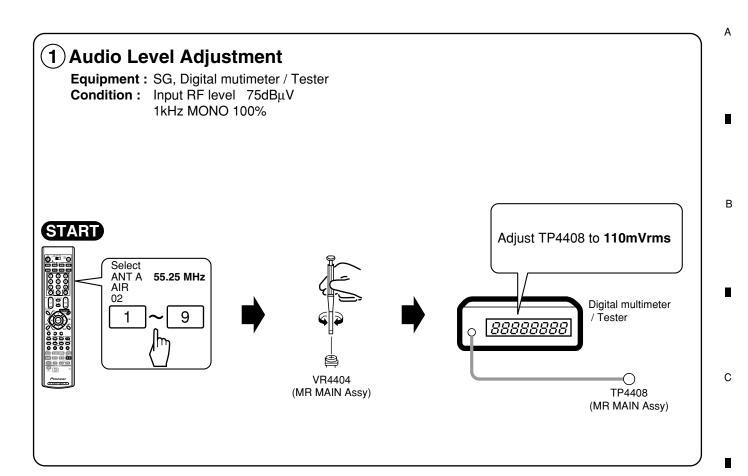


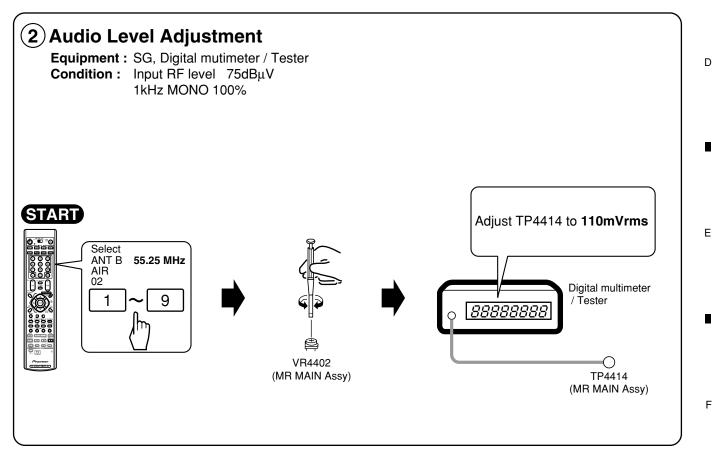
34

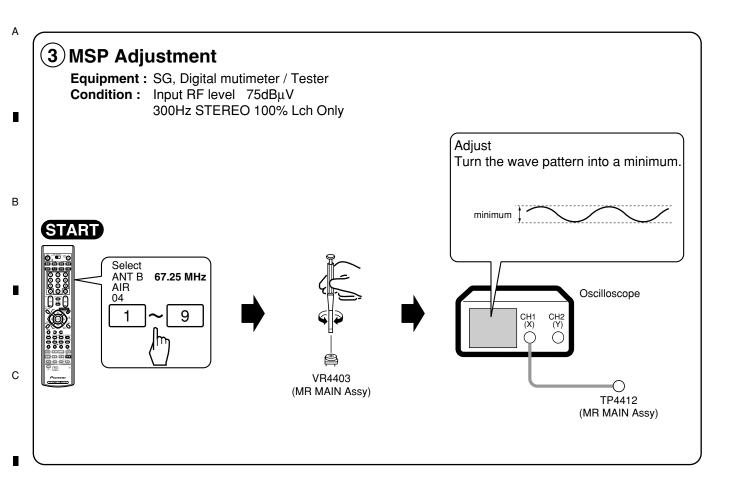
2

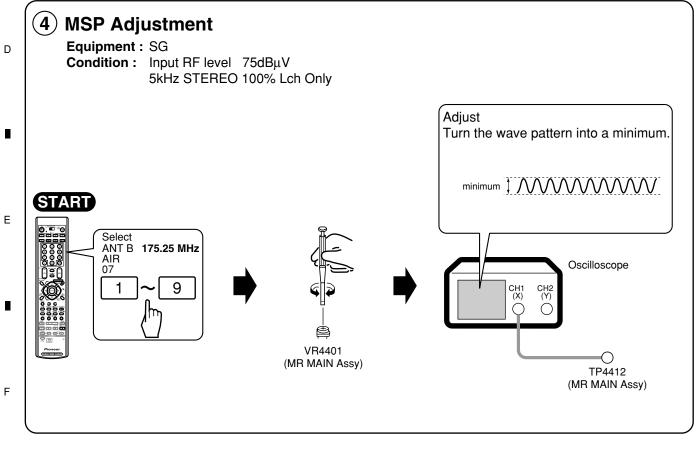
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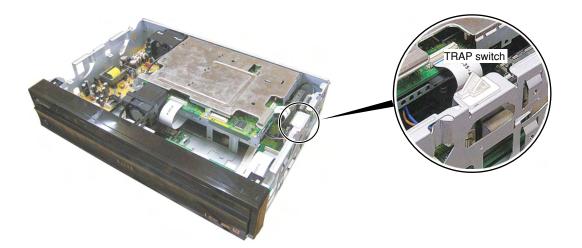
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For video data transmission from the Media Receiver to the PDP-436U and PDP-506U-series Plasma Displays, digital signals are used. Therefore, this unit adopts the HDCP (High-bandwidth Digital Content Protection) system for copyright protection. This unit is also provided with a detection switch (TRAP switch) that will prohibit the unit from being turned on again "if the upper plate of the unit is accidentally opened," in order to prevent the panel technology from being leaked out.

The TRAP switch is disabled while the unit is turned off.

When performing internal diagnosis of the PDP, fix the switch to the OFF position using adhesive tape before turning on the unit. After servicing, be sure to remove the adhesive tape.



## 6.5 SERVICING USING ONLY THE MEDIA RECEIVER

For servicing of the PDP-436HD and PDP-506HD-series Plasma Display using only the Media Receiver, the following two methods can be used:

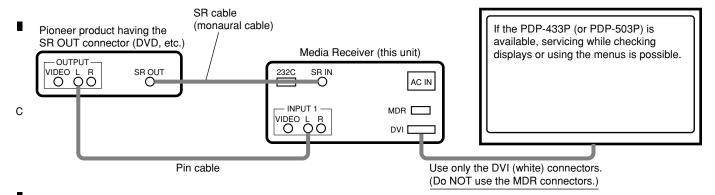
### Remote controlling using SR connections

#### **About connections**

Connect the SR OUT connector of a Pioneer product having that connector (a DVD in the following example) and the SR IN connector of the

Media Receiver, using the SR cable. As the remote control sensor is not provided with the Media Receiver, this connection is required for using the remote control unit if the panel is not available. In this case, aim the remote control unit at the remote control sensor of the device (DVD in this case).

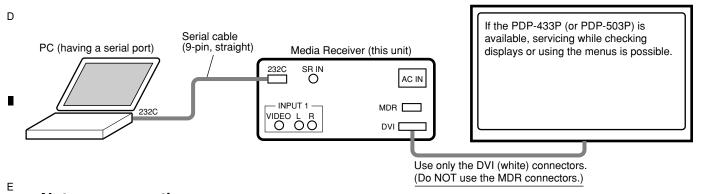
- Connect either the audio or the video output of the device (DVD in the example) and the corresponding audio or video input of the Media Receiver, using a cable with phono plugs. This connection is required in order to use ground in common with the SR cable, because with the SR cable connection the ground connection for signal reference is not available. In the example, the audio L channel is used, but the audio R channel or video can be used instead.
- If the plasma display for a previous model, such as the PDP-435P or PDP-505P, is available, servicing while checking displays or using the menus is possible. For this, connect only the DVI connectors (white) of the Media Receiver and the plasma display. The MDR connector of the Media Receiver must not be used, even though it has the same shape and number of pins, because signals assigned to the connectors



## RS-232C control using a PC

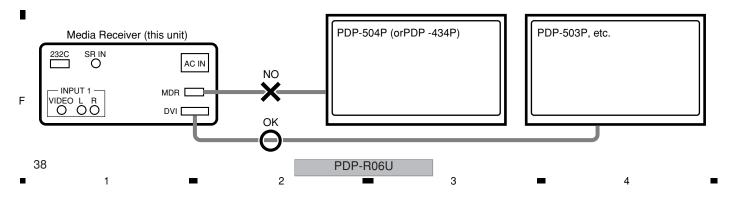
In this case the setting is RS-232C 38400bps, and the setting of "6.2. USING RS-232C COMMANDS" is not related. Please set baud rate of PC in 38400bps.

For connection with the PC, use a straight cable.



#### Note on connection

If the MDR connector of the PDP-436HD or PDP-506HD-series is used, it is considered that the PDP-436P (or PDP-506P) is connected, and the Media Receiver operates on such precondition, **which may result in a failure of the Media Receiver. Be sure not to connect to the MDR connector.** (Do NOT use the MDR connector when servicing the Media Receiver alone.)



To operate in Service Factory mode, use the supplied remote control unit.

## ■ How to enter Service Factory Mode

While in Standby mode, follow the below procedures with the remote control to enter Service Factoy mode.

- 1. Press the [DISPLAY] key.
- 2. 3 second counter will start.
- 3. After 3 seconds, press [ LEFT ] key.

(If no operation is done within 10 seconds, the Service

4. 5 Second counter will start.

- 5. Before 5 second counter ends, press [ UP ] key.
- 6. Before 5 second counter ends, press [ LEFT ] key.
- 7. Before 5 second counter ends, press [RIGHT] key.
- 8. Before 5 second counter ends, press [ POWER ] key.
- Factory routine is cleared, and the standby mode is returned) 9. If the prodcedure is correct with the given time, the Service Factory mode is up and ready.
- \* During step 3 to 8, if other operations took place, the Service Factory routine is cleared.
- \* If the counter's time is up, normal standby mode is returned.
- \* If TV Guide On Screen's "Auto Guide" is "on", set this setting to "off" before starting the procedure. If this setting is left "on", Service Factory mode will not be on.

# Operation in Service Factory mode

## Functions whose settings are set to OFF

The settings for the following functions are set to OFF when Service Factory mode is entered (including when the "FAY" command is received):

- Two-screen operations (input function set on the main side is selected)
- P ZOOM
- STILL
- Detection of the TRAP switch (The log in the EEPROM is retained.)

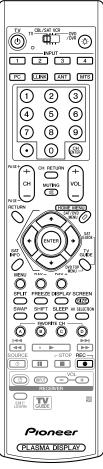
#### User data

User data will be treated as follows:

- · User data on picture- and audio-quality adjustments are not reflected, and factory-preset data are output (user data will be retained in memory). When the unit enters Factory mode, the current audio-quality adjustment data will still be retained in memory.
- · As to data on various settings, user data will be applied to the items that are associated with signal format change (screenize switching, etc.).
- · Data on screen (i.e., screen position; meaning clock dividers, and not including data on screen size) are reset to the default values (data stored in memory will be retained). Screen size will be retained.

## ■ Remote control codes in Service Factory mode

SR Function	Main Function	Remarks
Muting	Switching the main items	Shifting to the next main item (top)
DOWN	Switching the subtitled items	Shifting downward to the next subtitled item
UP	Switching the subtitled items	Shifting upward to the next upper layer
RIGHT	Decreasing the adjustment value	Decreasing the adjustment value
LEFT	Increasing the adjustment value	Increasing the adjustment value
SET	Switching layers	Shifting downward or upward to the next lower or upper layer
INPUT	Selecting input	Shifting the input to the next function
INPUTxx	Selecting input	Switching the input to xx
CH+	Increasing the channel number	Advancing a preset channel (effective when Function is set to TV)
СН-	Decreasing the channel number	Turning a preset channel backward (effective when Function is set to TV)
Numeric keys	Function: TV	Function: TV (previously selected channel number is selected)
POWER	Power OFF	Turning the power off
FACTORY	Factory OFF	Turning Service Factory mode off
MENU	Menu ON	Turning Service Factory mode off and Menu mode on



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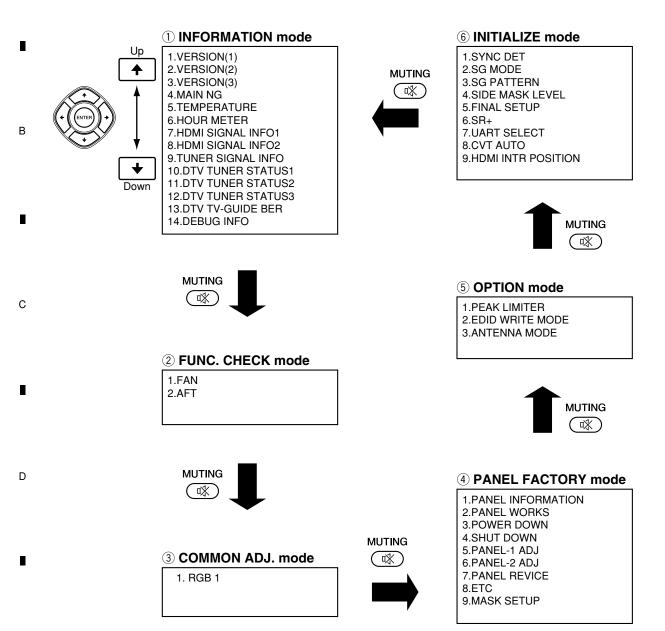
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# ■ Changes of the Service Factory menus



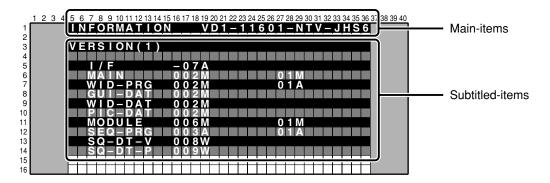
Note: Details of the Panel Factory Mode, refer to the Panel's service manual.

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# **■** Indications in Service Factory mode



#### **■** Main-item indications

Four parameters are displayed:



#### 1 Input function

Input Functions	On-Screen Display
VIDEO 1- 4	VD 1 - 4
Terrestrial Wave A	ARA
Terrestrial Wave B	ARB
Cable A	CBA
Cable B	CBB
PC	PC
PC Card	PCC

#### 2 SIG mode and screen size

Note: See SIG-Mode Tables. (See next page.)

#### **3** Color system and signal type

Color System and Signal Type		On-Screen Display		
NTSC	Composite input	NTV		
11130	S-connector input	NTS		
Y/CB/CR		CBR		
Y/PB/PR		PBR		
RGB RGB		RGB		
Digital video sign	al	DIG		

└ ④ Option (Destination, Panel Generation, etc.)

Options	On-Screen Display
HD system in North America (Regular)	ATS6
HD system in North America (ELITE)	AHS6

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## • SIG-Mode and Screen Size (by User is displayed)

**1st and 2nd charecters :** SIG-Mode (resolution) **3rd and 4th charecters :** SIG-Mode (refresh rate)

**5th charecter** : Setting of the screen size that user configured.

#### SIG-Mode table for video signals (resolutions and V frequencies)

1st - 4th	Character	Signal Type	Vertical Frequency Fv (Hz)	Horizontal Frequency Fh (kHz)
10	60	SDTV*525i	60.000	15.750
20	60	SDTV*525p	60.000	31.500
30	60	HDTV*1125i	60.000	33.750
40	60	HDTV*750p	60.000	45.000

#### SIG-Mode table for PC signals (resolutions and V frequencies)

1st - 4th	Character	Signal Type	Vertical Frequency Fv (Hz)	Horizontal Frequency Fh (kHz)
C1	70	720x400	70.087	31.469
	60		59.940	31.469
C2	72	640x480	72.809	37.861
	75		75.000	37.500
	56		56.250	35.1556
C4	60	800x600	60.317	37.879
L C4	72		72.188	48.077
	75		75.000	46.875
	60	1024x768	60.004	48.363
C7	70		70.069	56.476
	75		75.029	60.023
	56		56.250	45.113
C8	60	1280x768	59.833	47.986
	70		70.000	56.137

#### Selection of the screen size by the user is displayed.

5th Character	GUI Notation	VIDEO	PC	Remarks
0	DOT BY DOT	-	•	
1	4:3	•	•	
2	FULL(FULL1)	•	•	
3	ZOOM	•	-	
4	CINEMA	•	_	
5	WIDE	•	_	
8	FULL2	•	•	

•: supported, -: unsupported

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# **■** Service Factory Menus

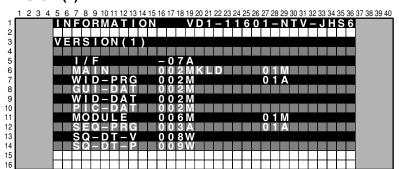
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# **1) INFORMATION mode**

## Operation items

No.	Function / Display	Context	RS-232C
1	VERSION (1)	The flash memory versions for each device are displayed. (common part)	QS1
2	VERSION (2)	The flash memory versions for each device are displayed. (individual part)	QS6
3	VERSION (3)	The flash memory versions for each device are displayed. (individual part)	QS6
4	MAIN NG	The shutdown generated on Media Receiver side and its time of occurrence are displayed.	QNG
5	TEMPERATURE	The information of temperature and fan status on Media Receiver side is displayed.	QMT
6	HOUR METER	The Cumulative power-on time to the Media Receiver is displayed.	-
7	HDMI SIGNAL INFO 1	The file information of HDMI series are displayed.	-
8	HDMI SIGNAL INFO 2	The file information of HDMI series are displayed.	-
9	TUNER SIGNAL INFO	The signal information on TUNER is displayed.	-
10	DTV TUNING STATUS 1	Digital broadcast information and status is displayed upon receiving digital broadcast signal.	-
11	DTV TUNING STATUS 2	Digital broadcast information and status is displayed upon receiving digital broadcast signal.	-
12	DTV TUNING STATUS 3	Digital broadcast information and status is displayed upon receiving digital broadcast signal.	-
13	DTV TV-GUIDE BER	TV-Guide Bit Error Rate Information.	-
14	DEBUG INFO	Debug Information.	-

#### 1. VERSION (1)



Flash memory on Device On-Screen Disp	
IF microcomputer	I/F
Main microcomputer	MAIN
Program for CARRERA-MANTA	WID-PRG
GUI data for CARRERA-MANTA	GUI-DAT
Enhanced data for CARRERA-MANTA.	WID-DAT
Picture Quality data for CARRERA-MANTA	PIC-DAT
Module microcomputer (for the PDP)	MODULE
Program for ASTRA-MANTA (for the PDP)	SEQ-PRG
Sequence data for ASTRA-MANTA Video	SQ-DT-V
Sequence data for ASTRA-MANTA PC	SQ-DT-P

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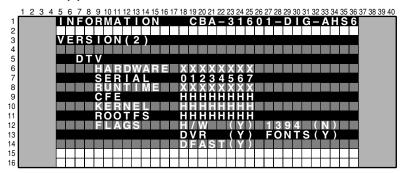
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2 3 4

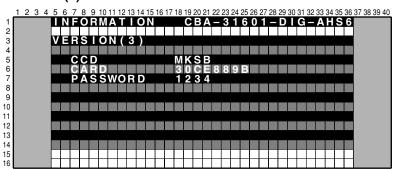
## 2. VERSION (2)

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Flash Device	On - Screen Display	Version Display	Elite	Regular
DTV Hardware Version	HARDWARE	8 character	0	0
DTV Hardware Serial	SERIAL	8 character	0	0
DTV Runtime Version	RUNTIME	8 character	0	0
CFE Version	CFE	8 character	0	0
KERNEL Version	KERNEL	8 character	0	0
ROOTFS Version	ROOTFS	8 character	0	0
FLAGS	FLAGS	5 character	0	0

#### 3. VERSION (3)



Flash Device	On - Screen Display	Version Display	Elite	Regular
CCD-UCOM Version	CCD	4 character	0	0
CARD Version	CARD	8 character	0	×
User Password	PASSWORD	4 character	0	0

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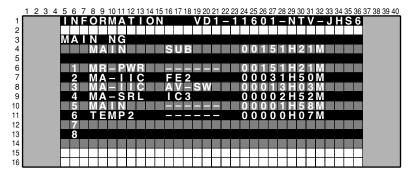
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## 4. MAIN NG



## • Media Receiver NG information

OSD: MAIN	OSD: SUB	Cause of Shutdown	
MODULE		Failure of communication to Module microcomputer	
MA-SRL		3-wire Serial Communication of Main microcomputer.	
	IF	Communication failure of IF microcomputer	
	MULTI1	MANTA communication failure (MULIT1)	
	I/P	MANTA communication failure (I/P)	
	D-SEL	MANTA communication failure (D-SEL)	
MA-IIC		IIC communication failure of Main microcomputer	
	FE1	Analog Tuner 1 (Front End 1)	
	FE2	Analog Tuner 2 (Front End 2)	
	MPX	MPX	
	AV-SW	AV Switch	
	RGB-SW	RGB Switch	
	CCD	CCD	
	GCR	GCR	
	M-VDEC	Main VDEC	
	ADC	AD/PLL	
	HDMI	HDMI	
	PLK-T	TMDS Tx	
	PLK-R	TMDS Rx	
	MA-EEP	64k EEPROM	
MAIN		Communication failure of Main microcomputer and Unknown Error	
FAN		Fan stopped	
TEMP2		Abnormally high temperature at MR.	
DTUNER		Failure of Digital Tuner	
	PS/RST	Failure to DTB Starting	
	DEVICE	DTB Device Error	
	TV-G	TV-Guide Error	
M-DCDC Abnormally in RST2 of MR (power decrease of DC-DC converter		Abnormally in RST2 of MR (power decrease of DC-DC converter)	
HOME-G		Failure at Home Gallery	
	CD-COM	Failure of PC Card Communication	
	CD-DEV	Failure of PC Card	
	CD-RST	PC Card Reset NG	

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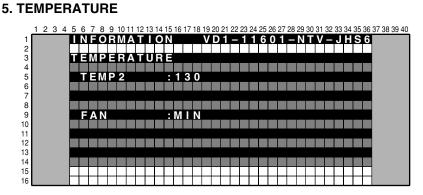
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Displays the temperature and FAN speed of the Media Receiver.

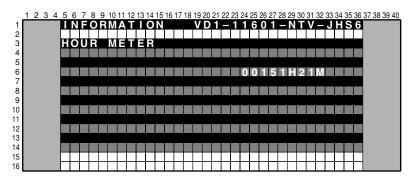
TEMP2: Displays the value from 000 to 255 of the readout data from the Media Receiver's built-in heat sensor.

FAN: The value of the Fan output is displayed. Either STOP, MIN, MAX is displayed.

STOP: FAN stop, MIN: FAN Speed Low, MAX: FAN Speed High

#### 6. HOUR METER

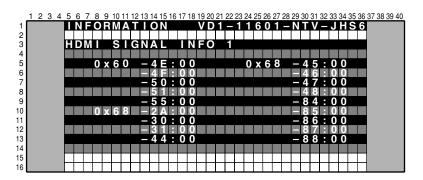
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- Displays the total time of power that the Media Receiver has been turned ON.
- Main microcomputer's memory timing is every one hour while the power is turned ON, when power is turned OFF, when PD/SD occurs.

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## 7. HDMI SIGNAL INFO 1



## • Displays the input signal information of HDMI terminal

	HDMI SIGNAL INFO 1					
	Context					
	- 4E:	Video information: valid horizontal pixel numbers (low order bit)				
	- 4F:	Video information: valid horizontal pixel numbers (high order bit)				
0x60	- 50:	Video information: valid vertical line numbers (low order bit)				
	- 51:	Video information: valid vertical line numbers (high order bit)				
	- 55:	Video information: interlace/non-interlace, sink polarity				
	- 2A:	Audio information: PCM/non PCM, copyright protected or not				
	- 30:	Audio information: sampling frequency				
	- 31:	Audio information: sampling bit rate				
	- 44:	Audio information: color space				
	- 45:	Video information: aspect ratio				
	- 46:	Video information: scaling				
0x68	- 47:	Video information: video format				
	- 48:	Video information: pixel count				
	- 84:	Audio information: channel count				
	- 85:	Audio information: not used (zero at all times)				
	- 86:	Audio infromation: not used (zero at all times)				
	- 87:	Audio information: speaker allocation				
	- 88:	Audio information (down mix prohibit flag				

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8



В

1 2 3 4 5 6 7 8 9 1011 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40

1 N FORMATION VD1 - 11 6 0 1 - N T V - J H S 6

H DM I SIGNAL INFO 2

0 x 6 0 - 3 A : 0 0 0 x 6 8 - 0 6 : 0 0

- 3 B : 0 0 - 0 8 : 0 0

- 0 C : 0 0

- 0 D : 0 0

10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40

1 N FORMATION VD1 - 11 6 0 1 - N T V - J H S 6

H DM I SIGNAL INFO 2

- 0 x 6 0 - 3 A : 0 0 0 0 x 6 8 - 0 6 : 0 0

- 0 D : 0 0 0

- 0 D : 0 0

- 0 D : 0 0

- 0 D : 0 0

- 0 D : 0 0

- 0 D : 0 0

## • Displays the input signal information of HDMI terminal

	HDMI SIGNAL INFO 2					
,	Context					
	- 3A:	Video information: valid horizontal pixel numbers (low order bit)				
0x60	- 3B:	Video information: valid horizontal pixel numbers (high order bit)				
UXOU	- 3C:	Video information: valid vertical line numbers (low order bit)				
	- 3D:	Video information: valid vertical line numbers (high order bit)				
	- 06:					
	- 07:					
000	- 08:	Audio information: information for audio clock playback				
0x68	- 0C:	Addition mornation. Information for additional clock playback				
	- 0D:					
	- 0E:					

3

## 9. TUNER SIGNAL INFO

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40

1 NFORMATION VD1-11601-NTV-AHS6

2 3 TUNER SIGNAL INFO

MVDEC -0 0 : 0 0 MVDEC -1 D : 0 0

-0 2 : 0 0

-1 5 : 0 0

-1 5 : 0 0

-1 7 : 0 0

-1 8 : 0 0

-1 8 : 0 0

-1 8 : 0 0

-1 8 : 0 0

-1 8 : 0 0

## • Displays input signal status of MVDEC terminal

Device	SA	Context			
	00h	Signal distinct result 1			
	01h	Signal distinct result 2			
	02h	Flag detection output			
	15h	loise level distinction 1			
MVDEC	16h	Noise level distinction 2			
MIVDEC	17h	Non-standard evaluation out			
	18h	Subcarrier signal detection			
	19h	ACC data output			
	1Ah	ACC processed information output			
	1Dh	Input signal mode setting			

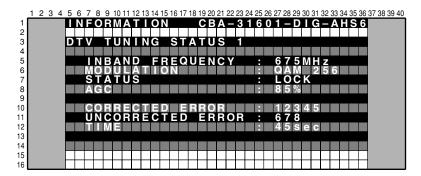
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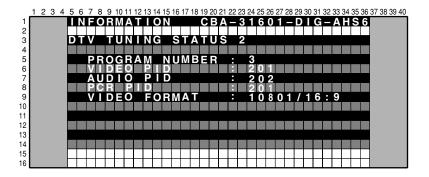
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2

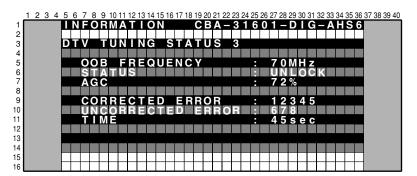
#### **10. DTV TUNING STATUS 1**



#### 11. DTV TUNING STATUS 2



#### **12. DTV TUNING STATUS 3**



Displays digital broadcast signal information and status upon receiving digital signal.

#### 13. DTV TV-GUIDE BER

Exclusively used for production line. TV-Guide error bit ratio information is displayed.

### 14. DEBUG INFO

Exclusively used for technical analysis. Debug information for development use is displayed.

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**2** 2 **3** 4

# 2 FUNC. CHECK (Function Check) mode

## Operation items

No.	Display	Content	RS-232C
1	FAN <=>	Forces the setting of FAN speed.	_
2	AFT <=>	Controls AFT action by turning ON/OFF.	_

# **③ COMMON ADJ. mode**

## 1. RGB1

Exclusively used for technical analysis (details omitted).

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## **4 PANEL FACTORY mode**

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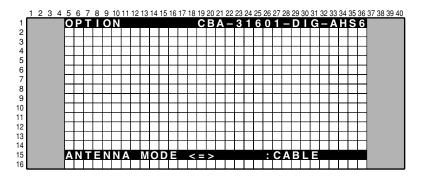
Please refer to panel's service manual.

## **5 OPTION mode**

## Operation items

No.	Function/Display	Content	RS-232C
1	PEAK LIMITTER ⇔	Control Peak Limitter (Select ON/OFF)	_
2	EDID WRITE MODE ⇔	DISABLE ⇔ ENABLE	_
3	ANTENNA MODE ⇔	CABLE ⇔ AIR	_

## 3. ANTENNA MODE



Receiving Cable/Air signal with equipped/unequipped DTB tuner.

#### 1) When DTV tuner is equipped

It is effective during tuner function only (others are gray-downed). The currently viewed ANT A/ANT B function's cable/air (both analog and digital) signal are changed. The channel settings are memorized (memorized by DTV side).

#### 2 When DTV tuner is unequipped

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It is possible for ANT A/ANT B function to receive air/cable signal.

Channel settings are not memorized. But after leaving factory mode, the settings are maintained.

If the air/ cable signal is changed, the reserved allocation map is written.

For example, if the signal is changed to air, then the air's broadcast map is configured, and cable's broadcast map is destroyed.

If the signal is changed to cable, then the cable's broadcast map is configured, and air's broadcast map is destroyed.

OSD Display Function		Control Device
CABLE Change the antenna setting to cable		
AIR	Change the antenna setting to air (analog)	

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## **6 INITIALIZE mode**

## Operation items

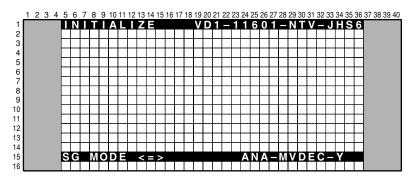
No.	Function/Display	Content	RS-232C
1	SYNC DET(+)	Exclusively used for technical analysis.	-
2	SG MODE ⇔	Paired SG_MODE with SG_PATTERN. Select SG Route.	_
3	SG PATTERN ⇔	Paired SG_MODE with SG_PATTERN. Select SG Pattern.	_
4	SIDE MASK LEVEL(+)	Configure the color of the side mask.	BSL GSL RSL
5	FINAL SETUP(+) Initialize flash memorys on default product status		FST
6	SR+ ⇔ Select SR+ mode or UART SELECT mode.		_
7	UART SELECT ⇔ Select boud Rate on RS-232C Communication		_
8	CVT AUTO ⇔ Exclusively used for technical analysis.		_
9	HDMI INTR POSITION(+)	NTR POSITION(+) Exclusively used for technical analysis.	

## 1. SYNC DET(+)

Exclusively used for technical analysis (details omitted).

#### 2. SG MODE

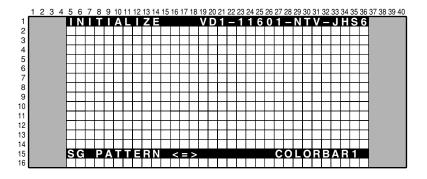
SG MODE (SG's route selection)/SG PATTERN (signal pattern selection) are used as pair. In SG MODE, select the SG route and then select the SG pattern to be sent by the selected route. In SG MODE, make sure to select the route first.



No.	Display	Content
1	SG OFF	SG Mode is OFF.
2	DIG MVDEC YCBCR	MAIN VDEC: YCbCr (Digital output mode)
3	ANA MVDEC YCBCR	MAIN VDEC: YCbCr (Analog output mode)
4	ANA MVDEC Y	MAIN VDEC: Y (Analog output mode: SG VDEC return setting)
5	ANA AD YCBCR	AD: YCbCr
6	ANA AD RGB	AD: RGB

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#### 3. SG PATTERN



No.	Function/Display	SG Pattern (Brightness IRE Level/Color)	No.	Function/Display	SG Pattern (Brightness IRE Level/Color)
1	COLOR BAR1	Colorbar (75%)	11	RASTER4	Raster (75% Green)
2	COLOR BAR2	Colorbar (100%)	12	RASTER5	Raster (75% Magenta)
3	RAMP1	Ramp (100% White)	13	RASTER6	Raster (75% Red)
4	RAMP2	Ramp (100% Yellow)	14	RASTER7	Raster (75% Blue)
5	RAMP3	Ramp (75% Green)	15	RASTER8	Raster (-% Black)
6	RAMP4	Ramp (75% Red)	16	10STEP1	10STEP (100% White)
7	RAMP5	Ramp (75% Blue)	17	10STEP2	10STEP (100% Yellow)
8	RASTER1	Raster (100% White)	18	10STEP3	10STEP (75% Green)
9	RASTER2	Raster (75% Yellow)	19	10STEP4	10STEP (75% Red)
10	RASTER3	Raster (75% Cyanide)	20	10STEP5	10STEP (75% Blue)

#### **Notes when using SG MODE/SG PATTERN**

- During factory mode, choose the correct route when changing.
- Basically, during VDEC SG output, make sure to connect SG output's Y or G to the AVI input terminal of VDEC.
- During SG MODE, turn off the blanking 50IRE setup function.
- During VDEC SG output, set the YC seperation setting to NTSC.
- It is possible to use ANALOG OUT MODE together during DIGITAL OUT MODE.

The Main VDEC can output digital color difference, in which colors will appear. But the route to VDEC input cannot be analysed therefore care should be taken when using. Depending on the situation, please use the proper analog/digital output.

- The SG MODE outputs color difference and RGB only. Therefore, in the case of CVBS, only the Y input is used resulting in no color. This is not a damage result nor error.
- The SG MODE's ANA AD RGB (route to input 525i to AD by RGB) as a set's route, the setting does not exist.
   For this account the latter part from MVDEC does not have set values, resulting in having funny colors in colorbar, the brightness changes after switching, etc.

This is not a damage result nor error.

• Depending on MVDEC's part version, ANA\_MVDEC\_YCBCR may not display colors.

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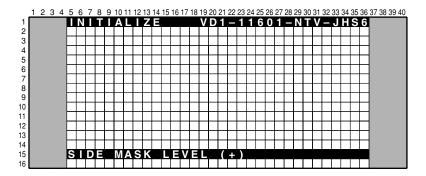
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## 4. SIDE MASK LEVEL

В

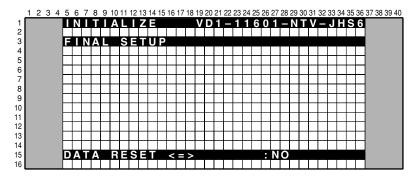
С



To configure sidemask's R, G, B level (To adjust the values, input signal is required).

No.	Display	Content	RS-232C
1	R MASK LEVEL ⇔	Adjust Side Mask R (Adjustable range: 000-255)	RSL
2	G MASK LEVEL ⇔	Adjust Side Mask G (Adjustable range: 000-255)	GSL
3	B MASK LEVEL ⇔	Adjust Side Mask B (Adjustable range: 000-255)	BSL

#### 5. FINAL SETUP



To reset each memory value to factory default values. Factory command is "FST".

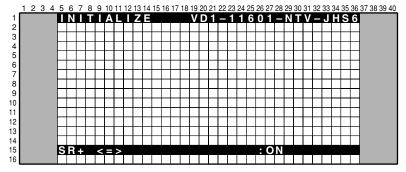
When the configuration is set to <NO> and the [SET] key is pressed, no action is taken and the menu returns to previous screen.

When the configuration is set to <YES> and the [SET] key is pressed for 5 seconds, the reset action executes.

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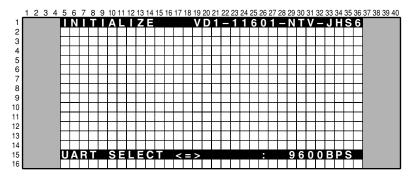
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## 6. SR+



To use SR+, select ON. To use RS-232C, select OFF.

## 7. UART SELECT



When SR+ is OFF, UART SELECT can be selected. When SR+ is ON, UART SELECT cannot be selected.

Option No.	Display	Operation / Control	RS-232C
1 (Initial setting)		To Set to SR+ (9600bps)	SR+ is ON
2	1200	To Set to RS-232C (1200bps)	SR+ is OFF
3	2400	To Set to RS-232C (2400bps)	SR+ is OFF
4	4800	To Set to RS-232C (4800bps)	SR+ is OFF
5	9600	To Set to RS-232C (9600bps)	SR+ is OFF
6	19200	To Set to RS-232C (19200bps)	SR+ is OFF
7	38400	To Set to RS-232C (38400bps)	SR+ is OFF

#### 8. CVT AUTO

Exclusively used for technical analysis (details omitted).

## 9. HDMI INTR POSITION (+)

Exclusively used for technical analysis (details omitted).

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# 6.7 LIST OF RS-232C COMMANDS

RS-232C commands can be used in Service Factory mode. Before using RS-232C commands, it is necessary to change the factory presetting. See "6.2 USING RS-232C COMMANDS."

Also the RS-232C commands for the panel is not listed. Please refer to panel's service manual.

Command	Operation Remarks	
	·	
В		
BSL	Adjust side mask B	
С		
CNG	Clearing MR NG information	
CHR	Clearing MR Hour meter	
СТМ	Clearing the modification log	
D		
DW*	Decreasing the adjustment value by*	*:1-9, 0 (0 means 10), F (making the adjustment value the minimum)
_		
F	Turning Contine Footon mode. "	
FAN	Turning Service Factory mode off.	
FAY	Turning Service Factory mode on.	
FST	Final Set Up	
G	i iliai Set Op	
GSL	Adjusting side mask G	
I	, agasting side masic a	
	Selection of tuner for digital signals (Antenna A) and	****** = Major Channel Number
INA****###	terrestrial analog signals (Antenna A)	### = Minor Channel Number
INA***	Selection of tuner for terrestrial analog signals (AntennaA)	*** = Channel Number
INB***	Selection of tuner for terrestrial analog signals (Antenna B)	*** = Channel Number Cable: 1-125ch, Air: 2-69ch
ING	Selection of iLink input functions	- Original Namber Sable: 1 12001, 7iii. 2 0001
INH	Selection of Home Gallery input functions	Elite Mode only
INPS01	Input selection: input 1	
INPS02	Input selection: input 2	
INPS03	Input selection: input 3	
INPS04	Input selection: input 4	
INPS05	Input selection: input 5	
0		
OSDS00	Turning On-Screen Display ON	Prohibit On-Screen Display.
OSDS01	Turning On-Screen Display OFF	Permit On-Screen Display.
Р		
POF	Turning the power off.	
PON	Turning the power on.	
Q		
QS1	Obtaining the version data for each device.	
QS6	Obtaining the any version.	
QMT	Obtaining the MR temperature information.	
QNG	Obtaining NG data of the MR.	
RSL	Adjust side mask R	
T HSL	Aujust side Illask II	
TSN	Disable the TRAP switch	
TSY	Enable the TRAP switch	
U	Endote the That Switch	
UP*	Increasing the adjustment value by *	*:1-9, 0 (0 means 10), F (making the adjustment value the maximum)
<b>Z</b>	moreasing the adjustifient value by	17-0, 0 (0 means 10), 1 (maxing the adjustment value the maximum)
ZME	Initialize video EEPROM data	
LIVIL	Initialize VIUCU EEI TIOIVI VAIA	I .

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Order	Part	Data Content	Size	Remarks
0	-	Received Command Name on MR	3 byte	'QS1' only
1		Display Information 1	1 byte	
2		Display Information 2	1 byte	
3		Display Information 3	1 byte	
4		Display Information 4	1 byte	
5		Display Information 5	1 byte	
6		Boot Version of Module microcomputer.	3 byte	
7	MDU	Program Version of Module microcomputer.	8 byte	
8		Boot Version of ASTRA-MANTA	3 byte	
9		Program Version of ASTRA-MANTA	8 byte	
10		Sequence Version (43VIDEO)	4 byte	
11		Sequence Version (43PC)	4 byte	
12		Sequence Version (50VIDEO)	4 byte	
13		Sequence Version (50PC)	4 byte	
14		, (comma)	1 byte	
15		MR Infomation 1	1 byte	
16		MR Infomation 2	1 byte	
17		MR Infomation 3	1 byte	
18		MR Infomation 4	1 byte	
19	MR	Version of IF microcomputer	4 byte	
20	IVIN	Version of Main microcomputer	8 byte	
21		Boot Version of Main microcomputer	4 byte	
22		Program Version of CARRERA-MANTA	8 byte	
23		Boot Version of CARRERA-MANTA	4 byte	
24		GUI Version of CARRERA-MANTA	8 byte	
25		Enhanced Version of CARRERA-MANTA	8 byte	
26		PIC Version of CARRERA-MANTA	8 byte	

**QS6:** Returning information of the Flash Device.

Order	Data Content	Size	Remarks
0	Received Command Name on MR	3 byte	'QS6' only
1	Hardware Version of DTV	8 byte	
2	Hardware Serial of DTV	8 byte	
3	Runtime Version of DTV	8 byte	
4	CFE Version	8 byte	
5	KERNEL Version	8 byte	
6	ROOTFS Version	8 byte	
7	FLAGS Information 1 (H/W: 'Y' or 'N')	1 byte	
8	FLAGS Information 2 (1394: 'Y' or 'N')	1 byte	
9	FLAGS Information 3 (DVR: 'Y' or 'N')	1 byte	
10	FLAGS Information 4 (FONTS: 'Y' or 'N')	1 byte	
11	FLAGS Information 5 (DFAST: 'Y' or 'N')	1 byte	
12	Version of CCD-UCOM	4 byte	
13	Version of PC-CARD	8 byte	
14	User Password	4 byte	

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## QMT: Returning information of MR temperature and FAN speed.

Order	Data Content	Size	Remark
0	Received Command Name on MR	3 byte	'QMT' only
1	MR Temperature	3 byte	
2	MR FAN Speed	1 byte	0: STOP 1: MIN 2: MAX

## QNG: Returning data (logs keep on Main microcomputer) on shutdown of Media Receiver.

Order	Data	Size	Context
0	Received Command Name on MR	3 byte	'QNG' only
1	Latest NG data	1 byte	
2	Data of subcategory for the latest NG	1 byte	
3	Data of MR hour meter for the latest NG	7 byte	
4	Data of temperature for the latest NG	3 byte	
5	2nd latest NG data	1 byte	
6	Data of subcategory for the 2nd latest NG	1 byte	
7	Data of MR hour meter for the 2nd latest NG	7 byte	
8	Data of temperature for the 2nd latest NG	3 byte	
:	:	:	
29	8th latest NG data	1 byte	
30	Data of subcategory for the 7th latest NG	1 byte	
31	Data of MR hour meter for the 7th latest NG	7 byte	
32	Data of temperature for the 7th latest NG	3 byte	

## • Details of Data and subcategory

Data	Cause of Shutdown	Remarks
0	Normal	
1	Failure of communication to Module microcomputer	
2	3-wire Serial Communication of Main microcomputer.	Subcategory ⇒ 1
3	IIC Communication failure of Main microcomputer	Subcategory ⇒ 2
4	Communication failure of Main microcomputer & Unknown Error	
5	Fan stopped	
6	Abnormally high temperature at MR.	
7	Failure of Digital Tuner	Subcategory ⇒ 3
8	Abnormally in RST2 of MR (power decrease of DC-DC converter)	
9	Failure at Home Gallary	Subcategory ⇒ 4

## • Data on Subcategories for failure in 3-wire serial communication of Main microcomputer (subcategory 1)

Data	Cause of Shutdown	Remarks
0	Non subcategory	
1	Communication failure of IF microcomputer	Power OFF
2	MANTA communication failure (MULIT1)	Power OFF
4	MANTA communication failure (I/P)	
5	MANTA communication failure (D-SEL)	

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## • Data on Subcategories for failure in IIC communication of Main microcomputer (subcategory 2)

Data	Cause of Shutdown	Data	Cause of Shutdown
0	Non subcategory	Α	AD/PLL
1	Analog Tuner 1 (Front End 1)	В	HDMI
2	Analog Tuner 2 (Front End 2)	С	TMDS Tx
3	MPX	D	TMDS Rx
4	AV Switch	E	M2 Communication
5	RGB Switch	F	M2 Busy
6	CCD	G	64k EEPROM
7	GCR		
8	Main VDEC		
9	Sub VDEC		

## • Data on Subcategories for failure in DTB communication of Main microcomputer (subcategory 3)

Data	Cause of Shutdown	Remarks
0	Non subcategory	
1	Failure to DTB Starting	
2	Communication failure to DTB	
3	DTB Device Error	
4	TV-Guide Error	

## • Data on Subcategories for failure at Home Gallery (subcategory 4)

Data	Cause of Shutdown	Remarks
0	Non subcategory	
1	Failure of PC Card Communication	
2	Failure of PC Card	
3	PC Card Reset NG	

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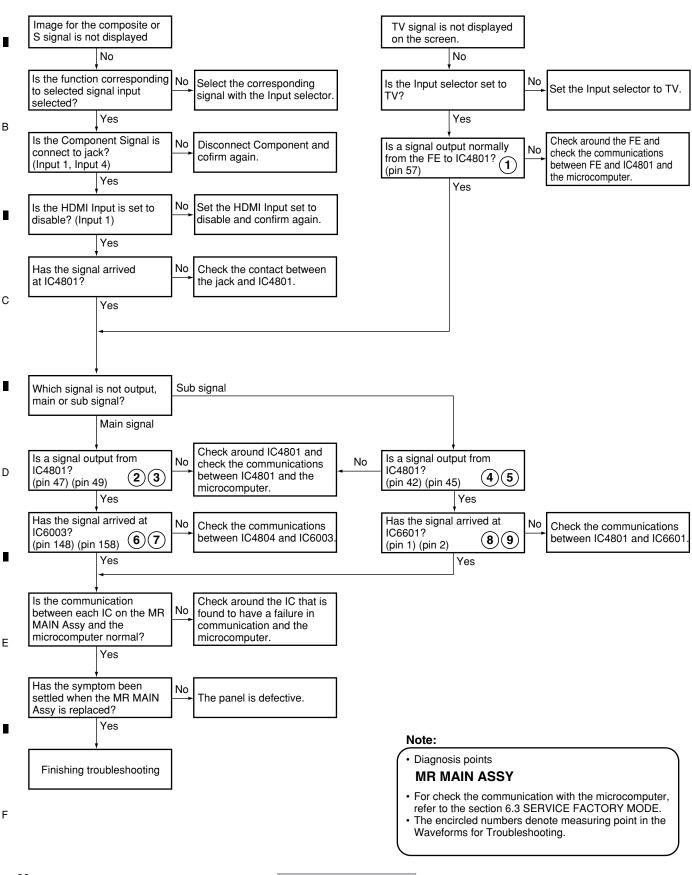
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# 7. GENERAL INFORMATION

## 7.1 DIAGNOSIS

### 7.1.1 TROUBLESHOOTING

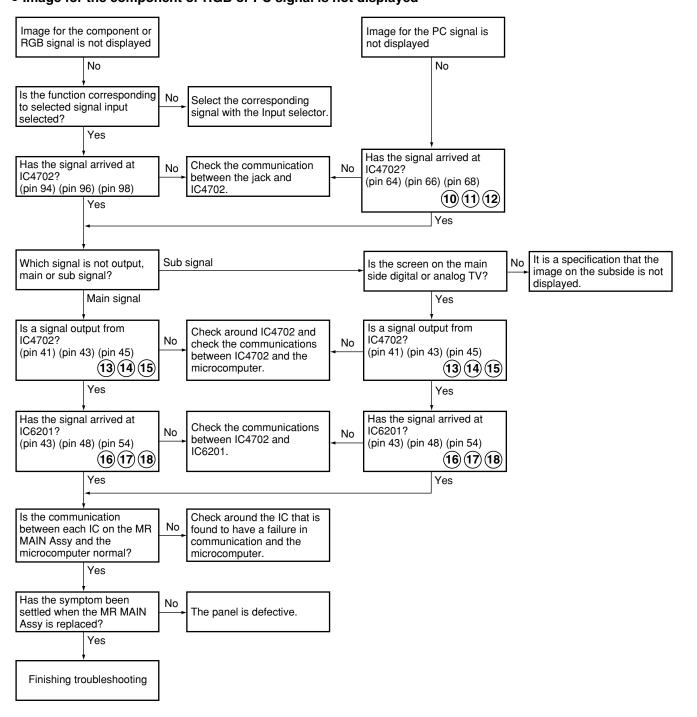
Image for the composite or S or TV signal is not displayed



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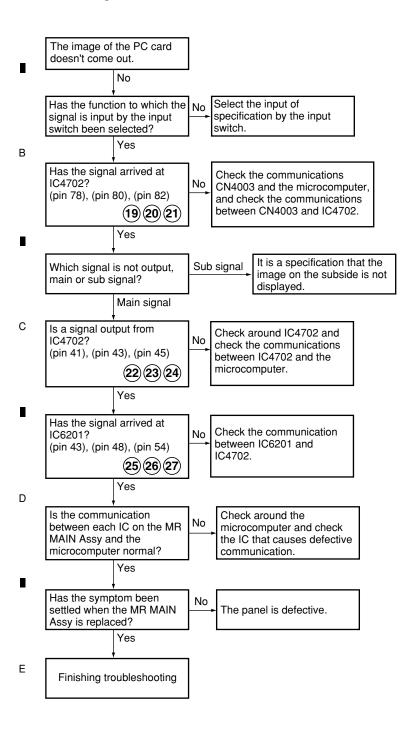
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1 2 3 4

## • The image of the PC card doesn't come out

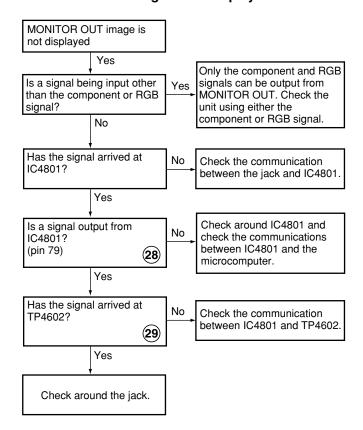


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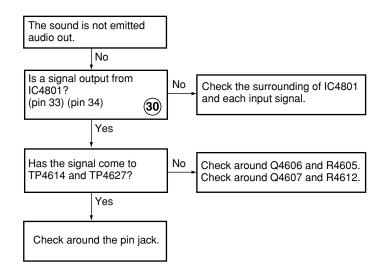
■ 2 ■ 3 ■ 4

## MONITOR OUT image is not displayed



### • The sound is not emitted audio out

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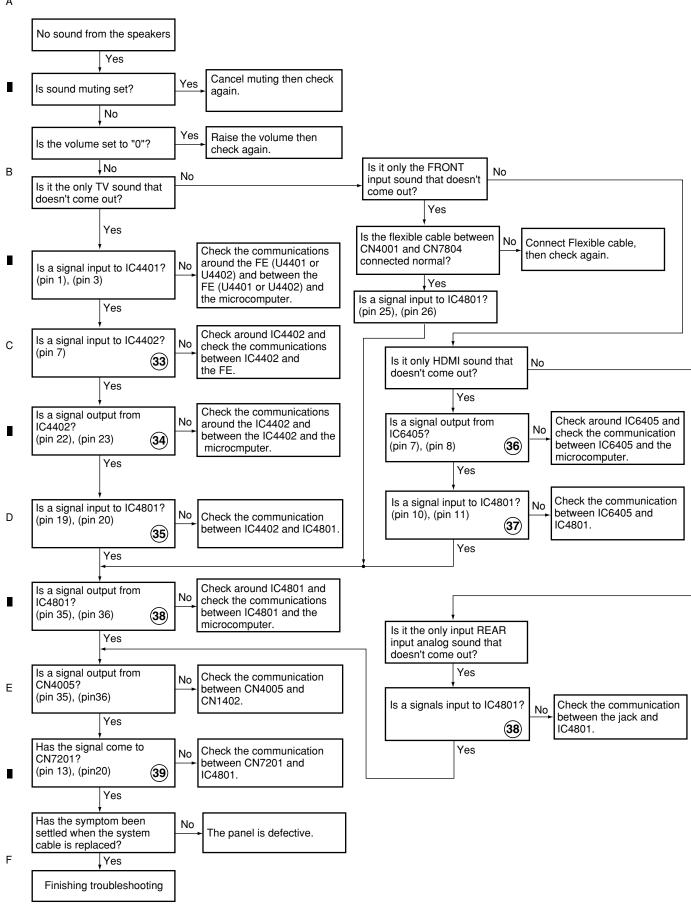
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## No sound from the speakers

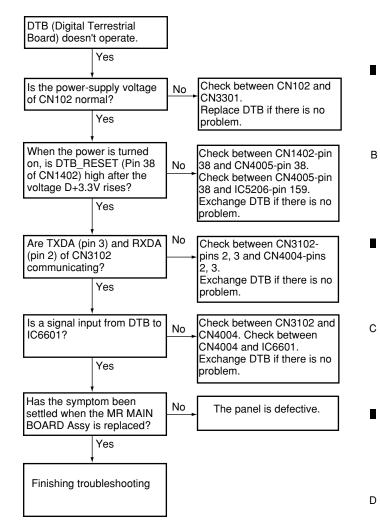


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## No sound from the subwoofer

#### No sound from the subwoofer Yes Cancel muting then check Is the sound muting set? again. No Raise the volume then Yes Is the volume set to "0"? check again. Is a signal output from No Check around IC4801 and IC4801? (pin 31), (pin 32) each input signal. (31) Yes Is a signal output from Νo IC4701? Check around IC4701. (pin 1), (pin 7) (32) Yes Has the signal arrived at Check around Q4704 and TP4703? R4710. Yes Check around the pinjack.

## DTB (Digital Terrestrial Board) doesn't operate



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**-** 2 **-** 3 **-** 4

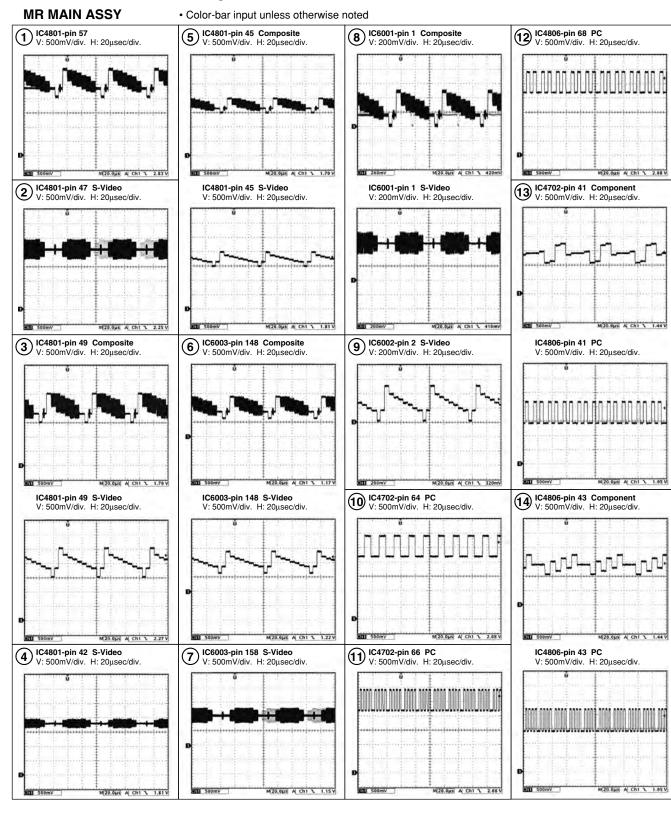
## Waveforms for Troubleshooting

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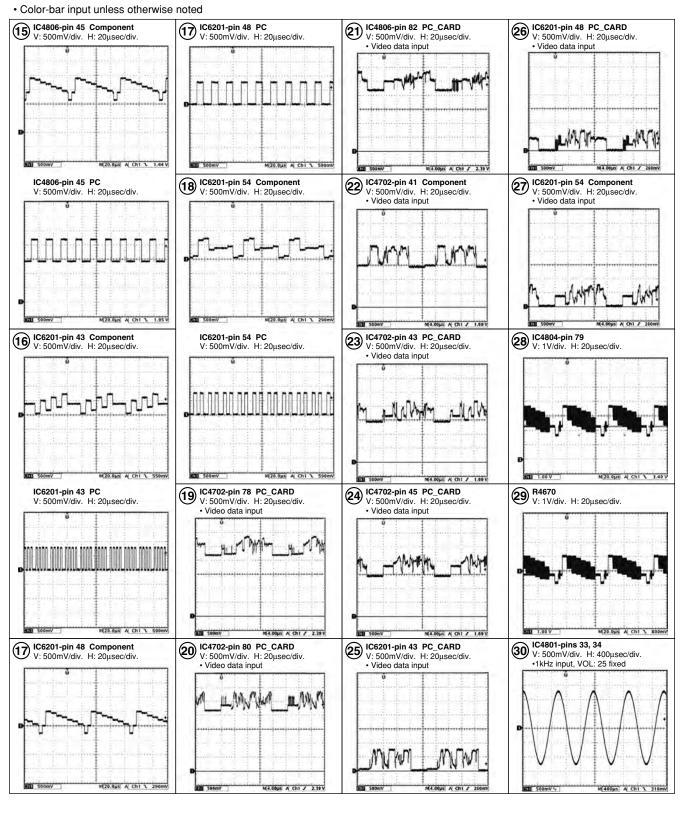
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1 2 3 4



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1 2 3 4

• 1kHz input, VOL: 25 fixed unless otherwise noted

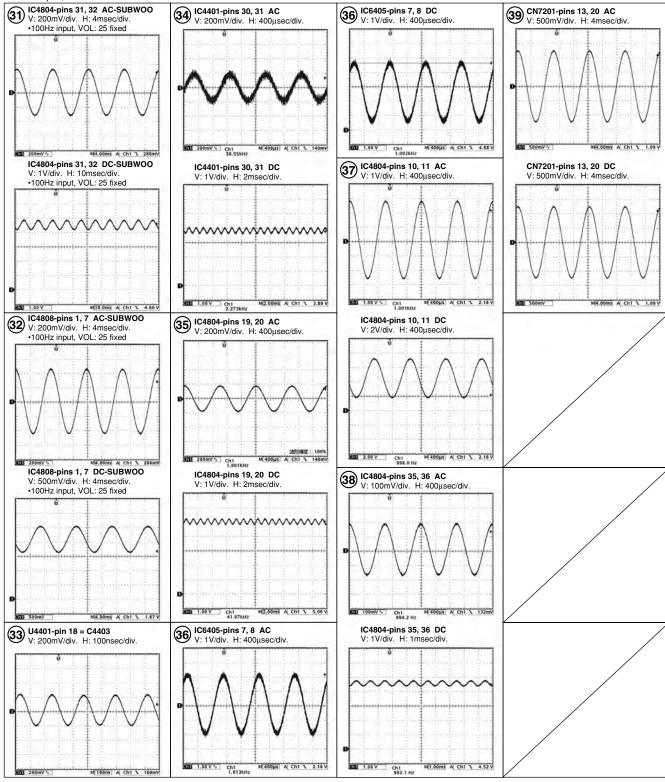
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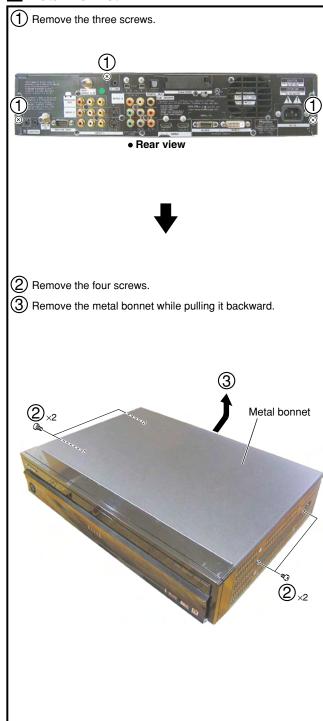
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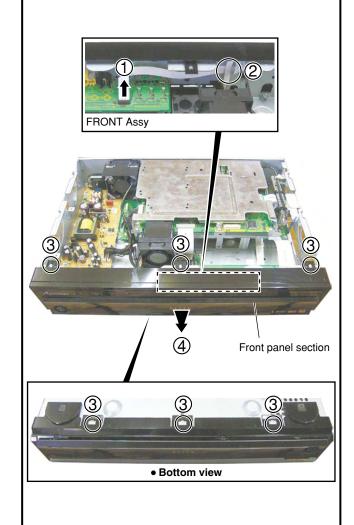
**Note:** Even if the unit shown in the photos and illustrations in this manual may differ from your product, the procedures described here are common.

## 1 Metal Bonnet



## **2** Front Panel Section

- $\bigcirc$  Disconnect the flexible cable.
- (2) Remove the flexible cable from the flat clamp.
- (3) Unhook the six hooks.
- (4) Remove the front panel section.

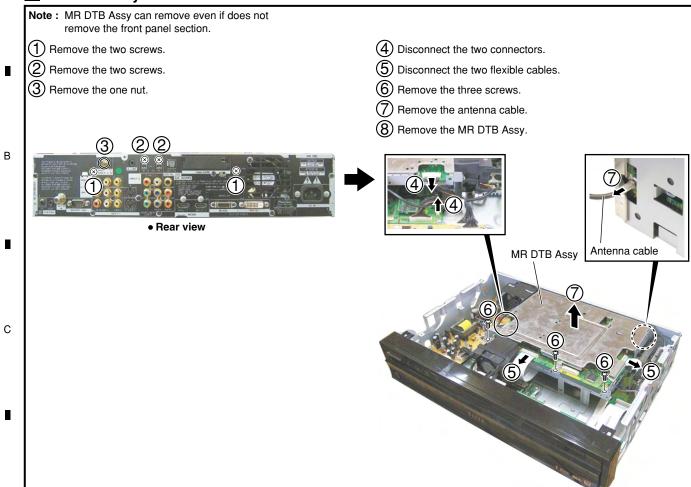


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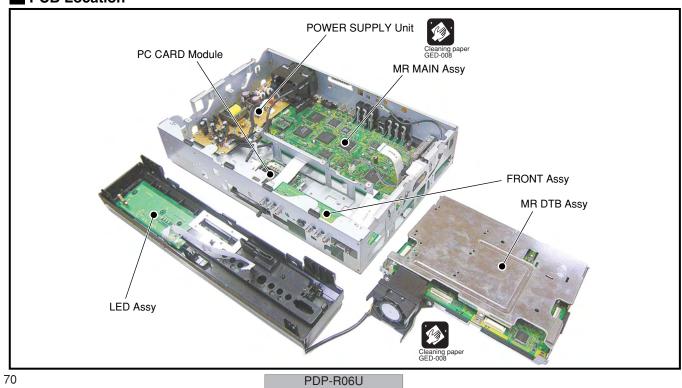


## **3** MR DTB Assy



## **PCB Location**

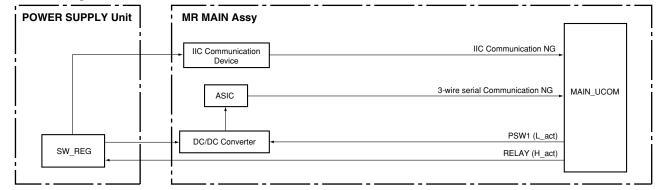
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# 7.2 EXPLANATION 7.2.1 PROCESSING IN ABNORMALITY

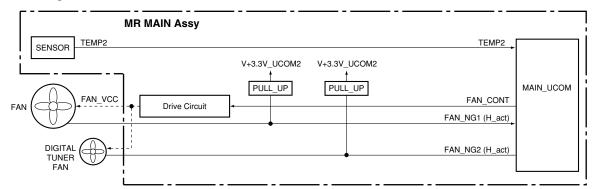
## Power supply and DC-DC converter

## Circuit diagram



## Fan and temperature sensor

## Circuit diagram

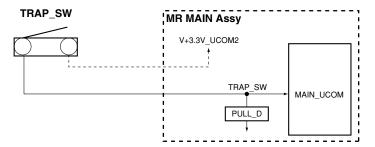


## Specifications for port monitoring

Port Name	SD/PD Indication	Assigned Pin	Active
FAN_NG 1	FAN	155	Shutdown with H
FAN_NG 2	FAN	104	Shutdown with H
TEMP2	Abnormally high temperature in the MR	76	Shutdown when the value exceeds the predetermined value

## TRAP\_SW

## Circuit diagram



## Specifications for port monitoring

Port Name	SD/PD Indication	Assigned Pin	Active
TRAP_SW	Modification tried	151	OFF with L

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2.5sec 2.5sec 1sec **LED-lighting Pattern** 100msec 1sec 50msec 50msec 0.5sec 0.5sec 100msec ш ш а с В  $\alpha$ В  $\alpha$ В  $\alpha$ ω ш <u>ш</u> В  $\alpha$ В α Flashing alternately in red and blue (at 1-sec intervals) Flashing in blue n times (initially at 0.5-sec intervals then 2.5-sec intervals) Flashing in red for n times (initially at 0.5-sec intervals then 2.5-sec intervals) Flashing in red (at 1-sec intervals) Lit in blue Status of the Unit Lit in red LED-lighting patterns System cable disconnected \* Shutdown (circuit protection) Waiting for finish of rewriting by the microcomputer Waiting for start of rewriting by the microcomputer TRAP switch operation Standby, power management PDP's power not on Power-down (circuit protection) Power on PDP-R06U 1

\* In this case, the red and blue areas on the screen of the panel flash alternately.

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	he panel  L	LEDs on	<u>~</u>	Category	Site defected as	Possible defective points (representative examples)	(warning message)
Red	Blue	Red	Blue	*	delective		(walling message)
T	Blue 1	Red			Panel drive IC	2*	None
	Blue 2	Red			Module section IIC	*2	None
	Blue 3	Red			Power decrease of DIGITAL-DC-DC	*5	None
	Blue 4	Red			Panel having abnormally high temperature	Z*	Power off. Internal temperature is too high. Check temperature around PDP. [SD04] *6
	Blue 5	Red			Short-circuiting of the speakers	*5	
Red			Blue 6		Module microcomputer	Disconnection of the system cable Defective mode manual of the PDP-436PU or PDF-506PU, Defective module microcomputer or its peripheral circuits of the panel (Refer to the service manual of the PDP-436PU or PDF-506PU, Defective main microcomputer (IC5206) Failure in communication (TXD_MD, RXD_MD, REQ_MD) between the panel's module microcomputer and IC5206 (main microcomputer)	None
Red			Blue 7		3-wire serial connection of the main section	3, IC	None
Red			Blue 8	SD	IIC of the main section	Defective U4401 (FE1) or its peripheral circuits Defective U4402 (FE2) or its peripheral circuits Defective Cl4014 (MRX) or its peripheral circuits Defective Cl4016 (MRX) or its peripheral circuits Defective Cl5602 (CCD) or its peripheral circuits Defective Cl5602 (CCD) or its peripheral circuits Defective Cl6603 (M-VDEC) or its peripheral circuits Defective Cl6604 (HDMI) or its peripheral circuits Defective Cl6404 (HDMI) or its peripheral circuits Defective Cl6404 (HDMI) or its peripheral circuits Defective Cl6405 (TX-COM, TX-SSY) or its peripheral circuits Defective Cl5202 (M-VEEP) or its peripheral circuits Defective Cl5502 (M-VEEP) or its peripheral circuits Defective Cl5202 (M-VEEP) or its peripheral circuits	None
						Failure in communication (SCL_AV, SUA_AV, SUL_MA, SUA_MA, SUL_EP, SUA_EP, SUL_HUCP, SUA_HUCP) between one of the above devices and IC5206 (main microcomputer)	
Red			Blue 9		Main microcomputer	Defective IC5206 (main microcomputer) Failure in communication (TXD_IF, RXD_IF, CLK_IF, CE_IF, BUSY_IF) between IC5206 (main microcomputer) and IC5002	None
Red			Blue 10		Fan	Failure in the fan motor, or the fan stopped because of dust attached to the fan	None
Red			Blue 11		MR or unit having abnormally high temperature	The Media Receiver or the unit being used at high temperature	Power off. Internal temperature is too high. Check temperature around media receiver. [SD011]
Red			Blue 12		Digital tuner	Defective DTV tuner Failure in communication (TXD_DT, RXD_DT) between the digital tuner and IC5206 (main microcomputer)	None
Red			Blue 13		ASIC power supply (DC-DC)	Defective U4201 (DD_CON) or short-circuiting elsewhere *6	None
Red 2		Red			POWER	**	None
Red 3		Red			SCAN	***	None
Red 4		Red			SCN-5V	Z*	None
Red 5	$\dagger$	Red			Y-DRV X-DCDC	7 <sub>%</sub> C <sub>%</sub>	None
Bed 7		2 2			SIIS-X	1. C*	None
Red 8		Red		В	ADRS		None
Red 9		Red			X-DRV	*2	None
Red 10		Red			X-DCDC		None
Red 11		Red			X-SUS	<b>~</b>	None
Red 12		Red			D-DCDC		None
Red 13		Red			IC4		None
Red 15		Red			UNKNOWN	*2	None

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PDP

REM

optical

BUFF

receiver

MOD Microcomputer

BUFF

Power supply MOD

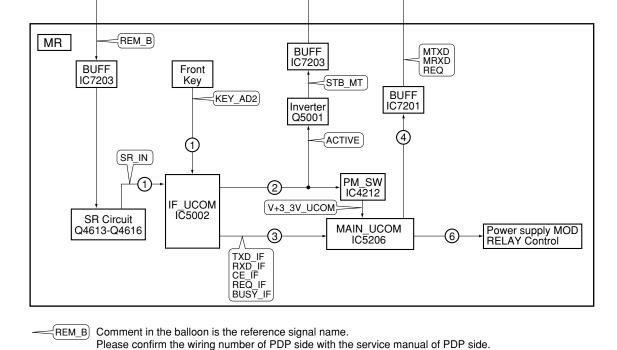
Power supply MOD RELAY Control

STB Control

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① : Remote controller signal (or, KEY signal) is input into IF microcomputer.

④: Main microcomputer sends in the activation order to MOD microcomputer.

②: IF microcomputer supplies the power supply to Main microcomputer and MOD microcomputer.

③: IF microcomputer communicates the operation information of Remote controller (or KEY) to Main microcomputer.

⑤: MOD microcomputer controls the relay of PDP power supply MOD, and activate the power supply of PDP side. ⑥: Main microcomputer controls the relay of MR power supply MOD, and activate the power supply of MR side.

## 7.3 PARTS 7.3.1 IC

• The information shown in the list is basic information and may not correspond exactly to that shown in the schematic diagrams.

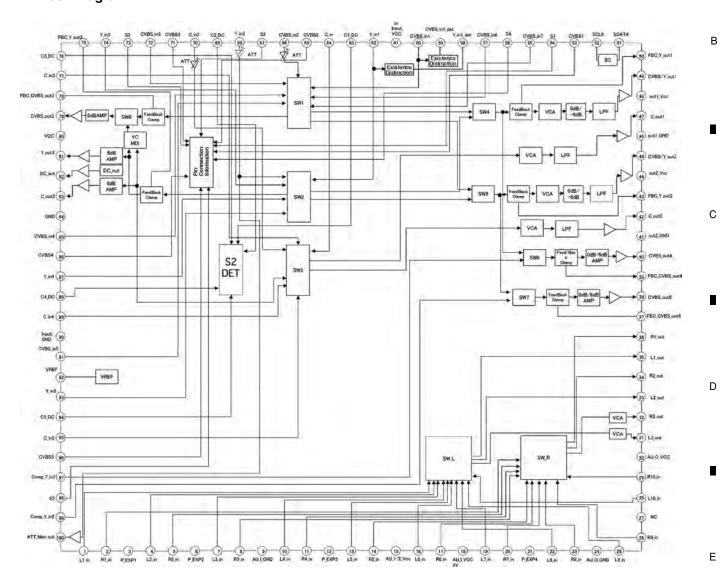
#### List of IC

R2S11002AFT, R2S11001FT, UPD64015GM-UEU, K4S161622H-TC60, AD9985KSTZ-110, SII9021CTU, K4S643232H-TC60, MBM29DL162TE70TN, SII170BCLG64, AXY1117, AXF1130, AXF1148

## ■ R2S11002AFT (MR MAIN ASSY: IC4801)

• AV SW

## Block Diagram

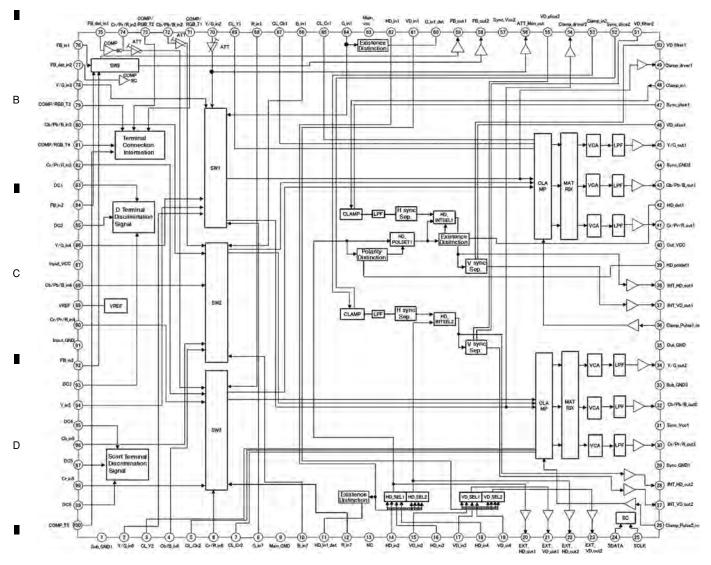


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# ■ R2S11001FT (MR MAIN ASSY: IC4702)

· Component SW IC

## Block Diagram



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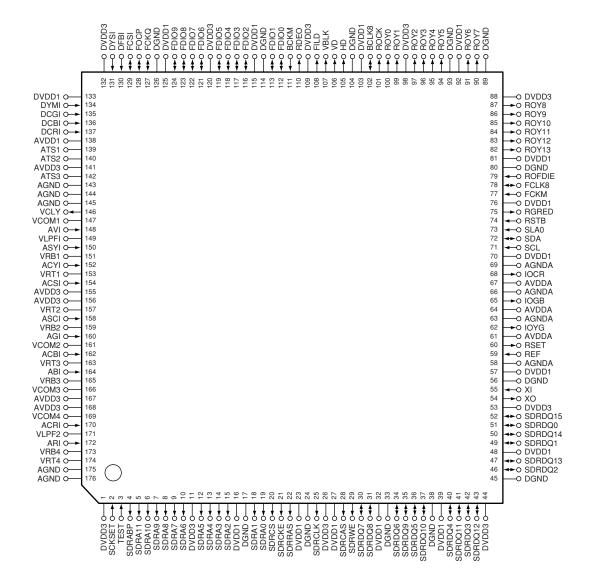
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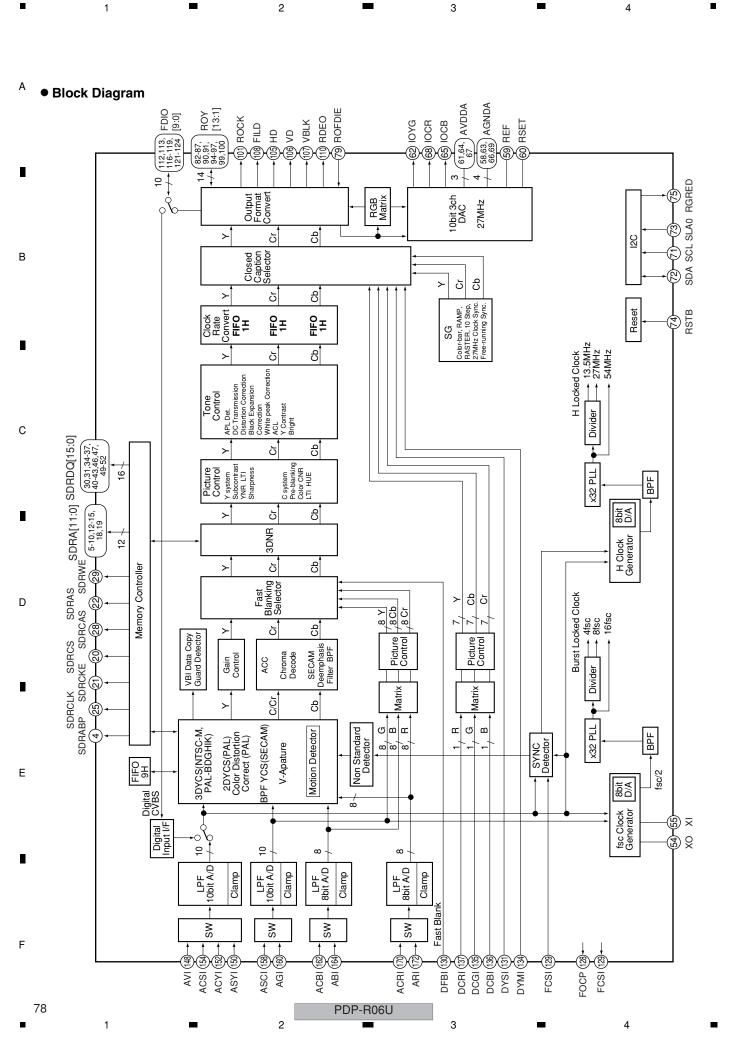
Video Decoder (for main screen)

## Pin Arrangement (Top view)



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## Pin Function

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	Function		
No.	Pin Name	I/O	Pin Function
1	DVDD3	_	Digital power supply (3.3V)
2	SCKSET	I	Test mode selection (L: Normal, H: Test mode)
3	TEST	I	Test setting (L: Normal, H: Test mode)
4	SDRABP	0	All bank precharge output for external memory (Active High)
5	SDRA11	0	Address output for external memory
6	SDRA10	0	Address output for external memory
7	SDRA9	0	Address output for external memory
8	SDRA8	0	Address output for external memory
9	SDRA7	0	Address output for external memory
10	SDRA6	0	Address output for external memory
11	DVDD3	_	Digital power supply (3.3V)
12	SDRA5	0	Address output for external memory
13	SDRA4	0	Address output for external memory
14	SDRA3	0	Address output for external memory
15	SDRA2	0	Address output for external memory
16	DVDD1	-	Digital power supply (1.5V)
17	DGND	<u> </u>	Digital ground
18	SDRA1	0	Address output for external memory
19	SDRA0	0	Address output for external memory
20	SDRCS	0	Chip select output for external memory (Active Low)
21	SDRCKE	0	Clock enable output for external memory (Active High)
22	SDRRAS	0	Row address strobe output for external memory (Active Low)
23	DVDD1	<del>  -</del>	Digital power supply (1.5V)
24	DGND	<u> </u>	Digital ground
25	SDRCLK	0	Clock output for external memory
26	DVDD3	<del>  -</del>	Digital power supply (3.3V)
27	DVDD1	<u> </u>	Digital power supply (1.5V)
28	SDRCAS	0	Column address strobe output for external memory (Active Low)
29	SDRWE	0	Write enable output for external memory (Active Low)
30	SDRDQ7	1/0	Data input/output for external memory
31	SDRDQ8	1/0	Data input/output for external memory
32	DVDD1		Digital power supply (1.5V)
33	DGND	_	Digital ground
34	SDRDQ6	I/O	Data input/output for external memory
35	SDRDQ9	I/O	Data input/output for external memory
36	SDRDQ5	I/O	Data input/output for external memory
37	SDRDQ10	I/O	Data input/output for external memory
38	DGND	-	Digital ground
39	DVDD1	_	Digital power supply (1.5V)
40	SDRDQ4	I/O	Data input/output for external memory
41	SDRDQ11	I/O	Data input/output for external memory
42	SDRDQ3	I/O	Data input/output for external memory
43	SDRDQ12	I/O	Data input/output for external memory
44	DVDD3	-	Digital power supply (3.3V)
45	DGND	<u> </u>	Digital ground
46	SDRDQ2	I/O	Data input/output for external memory
47	SDRDQ13	I/O	Data input/output for external memory
48	DVDD1	-	Digital power supply (1.5V)
49	SDRDQ1	I/O	Data input/output for external memory
50	SDRDQ14	1/0	Data input/output for external memory
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No.	Pin Name	I/O	Pin Function
51	SDRDQ0	I/O	Data input/output for external memory
52	SDRDQ15	I/O	Data input/output for external memory
53	DVDD3	_	Digital power supply (3.3V)
54	XO	0	Reference clock output Connect a 24.576MHz crystal.
55	XI	ı	Reference clock input Connect a 24.576MHz crystal.
56	DGND	_	Digital ground
57	DVDD1	_	Digital power supply (1.5V)
58	AGNDA	_	Analog ground for DAC
59	REF	ı	External reference input
60	RSET	0	Connect a 620 ohm resistor for external adjustment to AGND
61	AVDDA	_	Analog power supply for DAC (3.3V)
62	IOYG	0	Color-difference component Y / RGB component G output signal
63	AGNDA	T _	Analog ground for DAC
64	AVDDA	T _	Analog power supply for DAC (3.3V)
65	IOGB	0	Color-difference component Cb / RGB component B output signal
66	AGNDA	1 _	Analog ground for DAC
	AVDDA	+_	Analog power supply for DAC (3.3V)
68	IOCR	0	Color-difference component Cr / RGB component R output signal
69	AGNDA	<del>                                     </del>	Analog ground for DAC
70	DVDD1	+-	Digital power supply (1.5V)
71	SCL	1	I <sup>2</sup> C bus clock input Connect to SCL line of the system.
72	SDA	1/0	I <sup>2</sup> C bus data input/output Connect to SDA line of the system.
73	SLA0	1/0	I <sup>2</sup> C bus slave address select input (L: B8h/B9h, H: BAh/BBh)
74	RSTB	ΗĖ	System reset input (Active Low)
75	RGRED	0	I <sup>2</sup> C register read flag output (Active Low)
76	DVDD1	+ -	Digital power supply (1.5V)
77	FCKM	1	FCLK8 test mode selection (L: Normal, H: Test mode)
78	FCLK8	1/0	Line-lock clock monitor input/output
79	ROFDIE	1/0	Output enable of the video input/output terminal L: Output terminal Hi-Z, H: Output enable
80	DGND	<u> </u>	Digital ground
81	DVDD1	+	Digital power supply (1.5V)
82	ROY13	0	Digital ITU-R BT. 656/component output Digital RGB component (8 bit) output
83	ROY12	0	Digital ITU-R BT. 656/component output Digital RGB component (8 bit) output
84	ROY11	0	Digital ITU-R BT. 656/component output Digital RGB component (8 bit) output
85	ROY10	0	Digital ITU-R BT. 656/component output Digital RGB component (8 bit) output
86	ROY9	0	Digital ITU-R BT. 656/component output Digital RGB component (8 bit) output
87	ROY8	0	Digital ITU-R BT. 656/component output Digital RGB component (8 bit) output
88	DVDD3	-	Digital power supply (3.3V)
89	DGND	† _	Digital ground
90	ROY7	0	Digital ITU-R BT. 656/component output Digital RGB component (8 bit) output
91	ROY6	0	Digital ITU-R BT. 656/component output Digital RGB component (8 bit) output
92	DVDD1	<del>  -</del>	Digital power supply (1.5V)
93	DGND	† <u>-</u>	Digital ground
94	ROY5	0	Digital ITU-R BT. 656/component output Digital RGB component (8 bit) output
95	ROY4	0	Digital ITU-R BT. 656/component output Digital RGB component (8 bit) output
96	ROY3	0	Digital ITU-R BT. 656/component output Digital RGB component (8 bit) output
97	ROY2	0	Digital ITU-R BT. 656/component output Digital RGB component (8 bit) output
98	DVDD3	-	Digital power supply (3.3V)
99	ROY1	0	Digital ITU-R BT. 656/component output Digital RGB component (8 bit) output
100	ROY0	0	Digital ITU-R BT. 656/component output Digital RGB component (8 bit) output
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No.	Pin Name ROCK	1/0	Pin Function
		0	Clock for digital ITU-R BT. 656/component output
102	BCLK8	I/O	Line-lock clock monitor input/output
103	DVDD1	-	Digital power supply (1.5V)
104	DGND	-	Digital ground
105	HD	0	Horizontal sync. signal output
106	VD	0	Vertical sync. signal output
107	VBLK	0	V blanking output
108	FILD	0	Field output
109	DVDD3	<u> </u>	Digital power supply (3.3V)
	RDEO	0	Effective pixel area output
111	BCKM	I	Test mode selection of BCLK8 pin (L: Normal, H: Test mode)
112	FDIO0	I/O	Digital 8/10 bit Cb, Cr output / Input at UPD64031A digital connection Open at no use.
113	FDIO1	I/O	Digital 8/10 bit Cb, Cr output / Input at UPD64031A digital connection Open at no use.
114	DGND	_	Digital ground
115	DVDD1	_	Digital power supply (1.5V)
116	FDIO2	I/O	Digital 8/10 bit Cb, Cr output / Input at UPD64031A digital connection Open at no use.
117	FDIO3	I/O	Digital 8/10 bit Cb, Cr output / Input at UPD64031A digital connection Open at no use.
	FDIO4	I/O	Digital 8/10 bit Cb, Cr output / Input at UPD64031A digital connection Open at no use.
	FDIO5	I/O	Digital 8/10 bit Cb, Cr output / Input at UPD64031A digital connection Open at no use.
120	DVDD3	-	Digital power supply (3.3V)
	FDIO6	I/O	Digital 8/10 bit Cb, Cr output / Input at UPD64031A digital connection Open at no use.
	FDIO7	I/O	Digital 8/10 bit Cb, Cr output / Input at UPD64031A digital connection Open at no use.
	FDIO8	I/O	Digital 8/10 bit Cb, Cr output / Input at UPD64031A digital connection Open at no use.
	FDIO9	1/0	Digital 8/10 bit Cb, Cr output / Input at UPD64031A digital connection Open at no use.
125	DVDD1	-	Digital power supply (1.5V)
126	DGND	-	Digital ground
	FCKQ	I/O	Sampling clock output for digital connection
	FOCP	1/0	Clamp pulse output for digital connection / Timing output for digital RGB input (VD)
	FCSI	1/0	Sync sep. signal input / Timing output for RGB input (HD)
	DFBI	1/0	Fast blanking signal input for analog RGB input
131	DYSI	+ ;	YS signal input for digital RGB input
	DVDD3	+ '	Digital power supply (3.3V)
	DVDD3	<del>  -</del>	Digital power supply (3.5V)  Digital power supply (1.5V)
133	DYMI	-	
		+	YM signal input for digital RGB input
		+	Digital RGB/G signal input Digital RGB/B signal input
	DCBI	+ +	
137	DCRI		Digital RGB/R signal input
	AVDD1	_	Analog power supply (1.5V)
	ATS1	-	Analog test input Normally, connect to GND.
	ATS2	<del>  -</del>	Analog test input Normally, connect to GND.
141	AVDD3	-	Analog power supply (3.3V)
	ATS3	-	Analog test input Normally, connect to GND.
143	AGND	_	Analog ground
144	AGND	_	Analog ground
	AGND	-	Analog ground
146	VCLY	0	ADC1 clamp voltage
147	VCOM1	<del>  -</del>	ADC1 common-mode reference voltage
148	AVI	I	ADC1 composite/Y signal input
149	VLPFI	-	Analog test output Connect to GND via 0.1μF capacitor.
150	ASYI		ADC1 composite/Y signal input

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No.	Pin Name	I/O	Pin Function
151	VRB1	_	ADC1 bottom reference voltage
152	ACYI	ı	ADC1 composite/Y signal input
153	VRT1	-	ADC1 top reference voltage
154	ACSI	-	ADC1 composite/Y signal input
155	AVDD3	-	Analog power supply for ADC (3.3V)
156	AVDD3	_	Analog power supply for ADC (3.3V)
157	VRT2	_	ADC2 top reference voltage
158	ASCI	- 1	ADC2 separate C signal input
159	VRB2	ı	ADC2 bottom reference voltage
160	AGI	_	ADC2 RGB component G signal input
161	VCOM2	ı	ADC2 common-mode reference voltage
162	ACBI	ı	ADC3 color-difference component Cb signal input
163	VRT3	ı	ADC3 top reference voltage
164	ABI	_	ADC3 RGB component B signal input
165	VRB3	ı	ADC3 bottom reference voltage
166	VCOM3	_	ADC3 common-mode reference voltage
167	AVDD3	ı	Analog power supply for ADC (3.3V)
168	AVDD3	ı	Analog power supply for ADC (3.3V)
169	VCOM4	_	ADC4 common-mode reference voltage
170	ACRI	-	ADC4 color-difference component Cr signal input
171	VLPF2	1	Analog test output
172	ARI	ı	ADC3 RGB component R signal input
173	VRB4	-	ADC4 bottom reference voltage
174	VRT4	-	ADC4 top reference voltage
175	AGND	_	Analog ground
176	AGND	_	Analog ground

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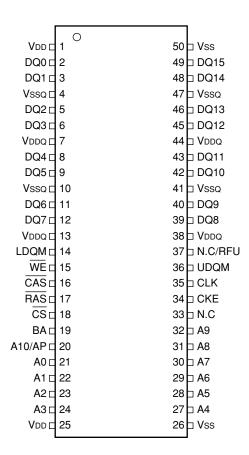
1 **2 3 4** 

## ■ K4S161622H-TC60 (MR MAIN ASSY : IC6002)

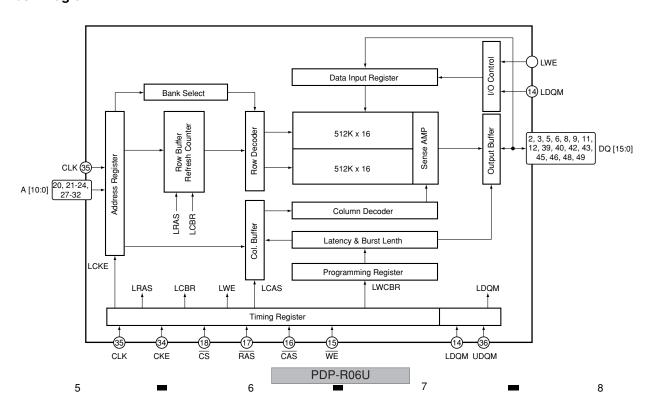
• 16M SDRAM (for Main VDEC)

## • Pin Arrangement (Top view)

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### Block Diagram



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## • Pin Function

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No.	Pin Name	I/O	Pin Function	No.	Pin Name	I/O	Pin Function
1	VDD	_	Power supply	26	Vss	1	Ground
2	DQ0	I/O	Data input / output	27	A4	I	Address input
3	DQ1	I/O	Data input / output	28	A5	I	Address input
4	Vssq	-	Ground for data output	29	A6	1	Address input
5	DQ2	I/O	Data input / output	30	A7	1	Address input
6	DQ3	I/O	Data input / output	31	A8	I	Address input
7	VDDQ	_	Power supply for data output	32	A9	1	Address input
8	DQ4	I/O	Data input / output	33	N.C	_	No connection
9	DQ5	I/O	Data input / output	34	CKE	I	Clock enable input
10	Vssq	_	Ground for data output	35	CLK	ı	System clock input
11	DQ6	I/O	Data input / output	36	UDQM	ı	Data input / output mask input
12	DQ7	I/O	Data input / output	37	N.C/RFU	_	No connection / Reserved for future use
13	VDDQ	-	Power supply for data output	38	VDDQ	-	Power supply for data output
14	LDQM	ı	Data input / output mask input	39	DQ8	I/O	Data input / output
15	WE	ı	Write enable input	40	DQ9	I/O	Data input / output
16	CAS	- 1	Column address strobe input	41	VssQ	_	Ground for data output
17	RAS	ı	Row address strobe input	42	DQ10	I/O	Data input / output
18	cs	ı	Chip select input	43	DQ11	I/O	Data input / output
19	ВА	ı	Bank select address input	44	VDDQ	_	Power supply for data output
20	A10/AP	ı	Address input	45	DQ12	I/O	Data input / output
21	A0	ı	Address input	46	DQ13	I/O	Data input / output
22	A1	ı	Address input	47	Vssq	-	Ground for data output
23	A2	I	Address input	48	DQ14	I/O	Data input / output
24	A3	I	Address input	49	DQ15	I/O	Data input / output
25	VDD	_	Power supply	50	Vss	ı	Ground

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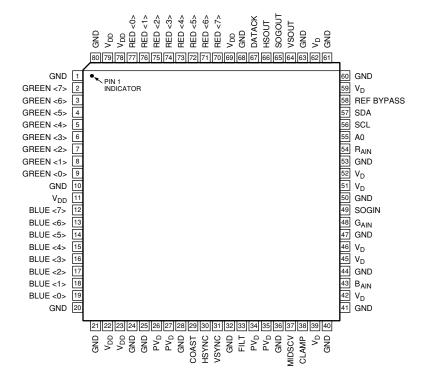
PDP-R06U

## ■ AD9985KSTZ-110 (MR MAIN ASSY : IC6201)

• ADC

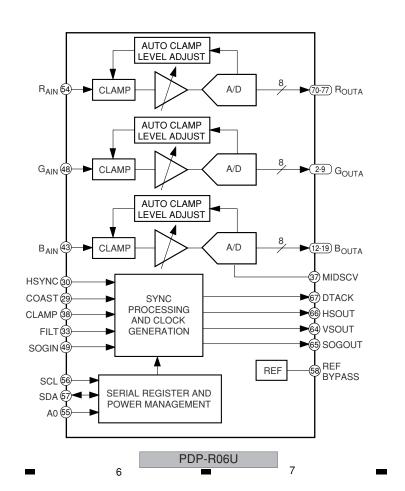
### Pin Arrangement (Top view)

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#### Block Diagram

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## Pin Function

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Pin Type	No.	PIN Name	Pin Function
	54	Rain	Analog input for converter R
	48	GAIN	Analog input for converter G
	43	BAIN	Analog input for converter B
la a cota	30	HSYNC	Horizontal sync input
Inputs	31	VSYNC	Vertical sync input
	49	SOGIN	Input for sync-on green
	38	CLAMP	Clamp input (External CLAMP signal)
	29	COAST	PLL COAST signal input
	70-77	Red [7:0]	Outputs of converter red, bit 7 is the MSB
	2-9	Green [7:0]	Outputs of converter green, bit 7 is the BSB
	12-19	Blue [7:0]	Outputs of converter blue, bit 7 is the BSB
Outputs	67	DATACK	Data output clock
	66	HSOUT	HSYNC output (Phase-aligned with DATACK)
	64	VSOUT	VSYNC output (Phase-aligned with DATACK)
	65	SOGOUT	Sync-on-green slicer output
	58	REF BYPASS	Internal reference bypass
Reference	37	MIDSCV	Internal midscale voltage bypass
	33	FILT	Connection for external filter components for internal PLL
	39, 42, 45, 46, 51, 52, 59, 62	VD	Analog power supply
	11, 22, 23, 69, 78, 79	VDD	Output power supply
Power Supply	26, 27, 34, 35	PVD	PLL power supply
	1, 10, 20, 21, 24, 25, 28, 32, 36, 40, 41, 44, 47, 50, 53, 60, 61, 63 68, 80	GND	Ground
	57	SDA	Serial port data I/O
Control	56	SCL	Serial port data clock (100 kHz maximum)
	55	A0	Serial port address input 1

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## ■ SII9021CTU (MR MAIN ASSY: IC6404)

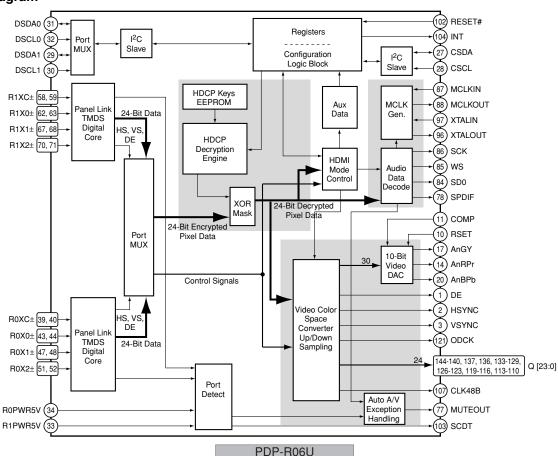
• HDMI Rx

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Pin Arrangement (Top view) DGND [ DGND 36 DGND L
DVCC18 [
IOGND [
IOVCC [
MUTEOUT [
SPDIF
CVCC18 [
CGND [
RSVD [
RSVD [
RSVD [ DGND
DVCC18
DVCC18
R0PWR5V
R1PWR5V
DSCL0
DSDA0
DSCL1
DSCL1
DSCL1
DSCL1
DSCL1
DSCL 35 34 33 32 31 79 80 81 82 30 29 28 27 RSVD [ SD0 [ WS [ IOVCC IOGND CGND 83 84 85 86 87 26 25 24 23 22 21 20 19 18 SCK I DACDGND DACDGND
AnBPb
DACVCCB
DACGNDB
AnGY
DACVCCG
DACGNDG 16 15 14 13 12 11 10 9 8 7 6 5 4 3 DACGNDG
DACGNDG
DACYCCR
DACGNDR
COMP
DESET
DACAGND
DACAGND
DACAGND
DACAGND
DACAVCC 100 101 103 I DACOVI I IOVCC I IOGND I VSYNC I HSYNC INT [ CVCC18 [ CGND [ 104 105 106 CLK48B I COCC180

#### Block Diagram

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## • Pin Function

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Ī	Na	Din Name	I/O	Din Function
ŀ	No.	Pin Name		Pin Function  Data enable
	1	DE	0	
	2	HSYNC	0	Horizontal sync output control signal
ŀ	3	VSYNC	0	Vertical sync output control signal
	4	IOGND	_	Input / output pin ground
	5	IOVCC	_	Input / output pin VCC
	6	DACOVCC	_	DAC output VCC
	7	DACAVCC	_	DAC analog VCC
	8	DACAGND	_	DAC analog ground
	9	VREF		_
	10	RSET	_	Full scale adjust resistor
	11	COMP	_	Compensation
	12	DACGNDR	_	DAC red ground
	13	DACVCCR	_	DAC red VDD
	14	AnRPr	0	Analog video red, Pr output
	15	DACGNDG	_	DAC green ground
	16	DACVCCG	_	DAC green VDD
	17	AnGY	0	Analog video green, Y output
ı	18	DACGNDB	_	DAC blue ground
	19	DACVCCB	_	DAC blue VDD
ı	20	AnBPb	0	Analog video blue, Pb output
ı	21	DACDGND	_	DAC digital ground
ı	22	DACDVCC18	_	DAC digital VCC
ı	23	CVCC18	_	Digital logic VCC
ı	24	CGND	_	Digital logic ground
ŀ	25	IOGND	_	Input / output pin ground
	26	IOVCC	_	Input / output pin VCC
ŀ	27	CSDA	I/O	Configuration I <sup>2</sup> C data
	28	CSCL	1	Configuration I <sup>2</sup> C clock
ŀ	29	DSDA1	I/O	DDC I <sup>2</sup> C data for port 1
	30	DSCL1	I	DDC I <sup>2</sup> C clock for port 1
ŀ	31	DSDA0	I/O	DDC I <sup>2</sup> C data for port 0
		DSCL0		
	32		I	DDC I <sup>2</sup> C clock for port 0
	33	R1PWR5V	1	Port 1 transmitter detect
	34	R0PWR5V	l	Port 0 transmitter detect
	35	DVCC18	_	ACR PLL digital VCC
	36	DGND	_	ACR PLL ground
	37	PVCC0	_	TMDS port 0 PLL VCC
	38	AVCC		TMDS analog VCC
	39	R0XC-	I	TMDS input clock
	40	R0XC+	I	TMDS input clock
	41	AGND	_	TMDS analog ground
	42	AVCC	_	TMDS analog VCC
	43	R0X0-	I	TMDS input data
	44	R0X0+	I	TMDS input data
	45	AGND	_	TMDS analog ground
	46	AVCC	_	TMDS analog VCC
	47	R0X1-	ı	TMDS input data
	48	R0X1+	ı	TMDS input data
	49	AGND	_	TMDS analog ground
	50	AVCC	-	TMDS analog VCC

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No.	Pin Name	I/O	Pin Function
51	R0X2-	I	TMDS input data
52	R0X2+	ı	TMDS input data
53	AGND	_	TMDS analog ground
54	TMDSPGND	_	TMDS PLL ground
55	PVCC1	_	TMDS port 1 PLL VCC
56	RSVD_A	_	Reserved pin
57	AVCC	_	TMDS analog VCC
58	R1XC-	ı	TMDS input clock
59	R1XC+	ı	TMDS input clock
60	AGND	_	TMDS analog ground
61	AVCC	_	TMDS analog VCC
62	R1X0-	ı	TMDS input data
63	R1X0+		TMDS input data
64	AGND	_	TMDS analog ground
65	AVCC	_	TMDS analog VCC
66	R1X1-		TMDS input data
67	R1X1+		TMDS input data
68	AGND		TMDS analog ground
69	AVCC	_	TMDS analog VCC
70	R1X2-		TMDS input data
71	R1X2+	1	TMDS input data
72	AGND		TMDS analog ground
73	DGND	_	ACR PLL ground
74	DVCC18	_	ACR PLL digital VCC
75	IOGND	_	Input / output pin ground
76	IOVCC	_	Input / output pin VCC
77	MUTEOUT	0	Mute audio output
78	SPDIF	0	S/PDIF audio output
79	CVCC18	_	Digital logic VCC
80	CGND		Digital logic ground
81	RSVD	0	
82	RSVD	0	_
83	RSVD	0	_
84	SD0	0	I <sup>2</sup> S serial data output
	WS	0	
85	SCK	_	I <sup>2</sup> S word select output I <sup>2</sup> S serial clock output
86 87	MCLKIN	0	Audio master clock input reference
	MCLKOUT	I	·
88		0	Audio master clock output
89	IOVCC		Input / output pin VCC
90	IOGND		Input / output pin ground
91	CGND		Digital logic ground
92	CVCC18	_	Digital logic VCC
93	NC AUDDVCC18		No connection
94	AUDPVCC18	-	ACR PLL VCC
95	AUDPGND	-	ACR PLL ground
96	XTALIN	0	Crystal clock output
97	XTALVOO	I	Crystal clock input
98	XTALVCC		ACR PLL crystal input VCC
99	REGVCC		ACR PLL regulator VCC
100	NC		No connection

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No.	Pin Name	I/O	Pin Function
101	RSVDL	_	Reserved, must be tied LOW
102	RESET#	_	Reset pin, active LOW
103	SCDT	0	Indicates active video at HDMI input port
104	INT	0	Interrupt output
105	CVCC18	ı	Digital logic VCC
106	CGND	ı	Digital logic ground
107	CLK48B	I/O	Data bus latch enable
108	IOGND	_	Input / output pin ground
109	IOVCC	_	Input / output pin VCC
110	Q23	0	24-bit output pixel data bus
111	Q22	0	24-bit output pixel data bus
112	Q21	0	24-bit output pixel data bus
113	Q20	0	24-bit output pixel data bus
114	CVCC18	-	Digital logic VCC
115	CGND	_	Digital logic ground
116	Q19	0	24-bit output pixel data bus
117	Q18	0	24-bit output pixel data bus
118	Q17	0	24-bit output pixel data bus
119	Q16	0	24-bit output pixel data bus
120	IOGND	-	Input / output pin ground
121	ODCK	0	Output data clock
122	IOVCC	-	Input / output pin VCC
123	Q15	0	24-bit output pixel data bus
124	Q14	0	24-bit output pixel data bus
125	Q13	0	24-bit output pixel data bus
126	Q12	0	24-bit output pixel data bus
127	CGND	_	Digital logic ground
128	CVCC18	_	Digital logic VCC
129	Q11	0	24-bit output pixel data bus
130	Q10	0	24-bit output pixel data bus
131	Q9	0	24-bit output pixel data bus
132	Q8	0	24-bit output pixel data bus
133	Q7	0	24-bit output pixel data bus
134	IOVCC	_	Input / output pin VCC
135	IOGND	_	Input / output pin ground
136	Q6	0	24-bit output pixel data bus
137	Q5	0	24-bit output pixel data bus
138	CGND	_	Digital logic ground
139	CVCC18	-	Digital logic VCC
140	Q4	0	24-bit output pixel data bus
141	Q3	0	24-bit output pixel data bus
142	Q2	0	24-bit output pixel data bus
143	Q1	0	24-bit output pixel data bus
144	Q0	0	24-bit output pixel data bus

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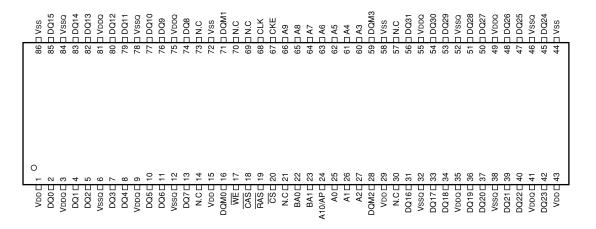
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## ■ K4S643232H-TC60 (MR MAIN ASSY : IC6801, IC6802)

• 64M SDRAM (for Silvia)

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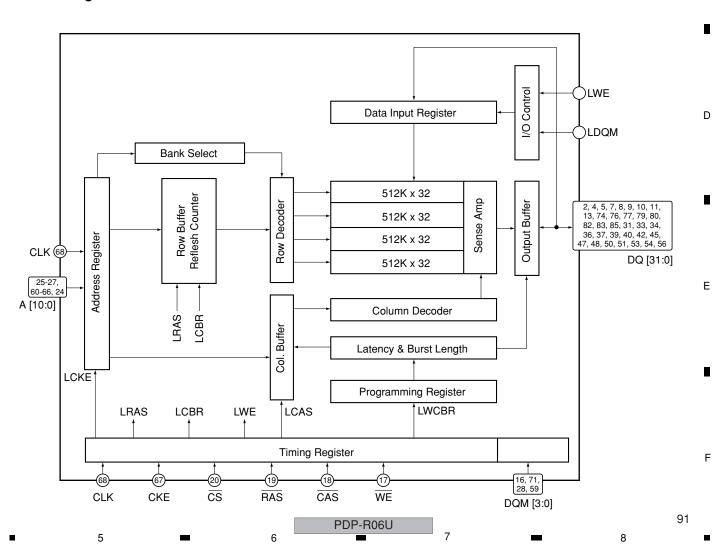
### Pin Arrangement (Top view)



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#### Block Diagram



## • Pin Function

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	No.	Pin Name	I/O	Pin Function	No.	Pin Name	I/O	Pin Function
Г	1	VDD	-	Power supply	44	Vss	-	Ground
	2	DQ0	I/O	Data input / output	45	DQ24	I/O	Data input / output
	3	VDDQ	-	Power supply for data output	46	Vssq	-	Ground for data output
	4	DQ1	I/O	Data input / output	47	DQ25	I/O	Data input / output
	5	DQ2	I/O	Data input / output	48	DQ26	I/O	Data input / output
	6	Vssq	-	Ground for data output	49	VDDQ	-	Power supply for data output
	7	DQ3	I/O	Data input / output	50	DQ27	I/O	Data input / output
	8	DQ4	I/O	Data input / output	51	DQ28	I/O	Data input / output
	9	VDDQ	-	Power supply for data output	52	VssQ	-	Ground for data output
	10	DQ5	I/O	Data input / output	53	DQ29	I/O	Data input / output
	11	DQ6	I/O	Data input / output	54	DQ30	I/O	Data input / output
	12	Vssq	_	Ground for data output	55	VDDQ	-	Power supply for data output
	13	DQ7	I/O	Data input / output	56	DQ31	I/O	Data input / output
	14	N.C	_	No connection	57	N.C	-	No connection
	15	VDD	_	Power supply	58	Vss	-	Ground
	16	DQM0	I	Data input / output mask input	59	DQM3	ı	Data input / output mask input
	17	WE	I	Write enable input	60	A3	ı	Address input
	18	CAS	I	Column address strobe input	61	A4	ı	Address input
	19	RAS	ı	Row address strobe input	62	A5	ı	Address input
	20	cs	ı	Chip select input	63	A6	ı	Address input
	21	N.C	_	No connection	64	A7	ı	Address input
	22	BA0	I	Bank select address input	65	A8	ı	Address input
	23	BA1	ı	Bank select address input	66	A9	ı	Address input
	24	A10/AP	ı	Address input	67	CKE	- 1	Clock enable input
	25	A0		Address input	68	CLK	-	System clock input
	26	A1	ı	Address input	69	N.C	-	No connection
	27	A2		Address input	70	N.C	-	No connection
	28	DQM2	_	Data input / output mask input	71	DQM1	- 1	Data input / output mask input
	29	VDD	ı	Power supply	72	Vss	-	Ground
	30	N.C	-	No connection	73	N.C	_	No connection
	31	DQ16	I/O	Data input / output	74	DQ8	I/O	Data input / output
L	32	VssQ	-	Ground for data output	75	VDDQ	-	Power supply for data output
L	33	DQ17	I/O	Data input / output	76	DQ9	I/O	Data input / output
L	34	DQ18	I/O	Data input / output	77	DQ10	I/O	Data input / output
L	35	VDDQ	-	Power supply for data output	78	VssQ	-	Ground for data output
L	36	DQ19	I/O	Data input / output	79	DQ11	I/O	Data input / output
L	37	DQ20	I/O	Data input / output	80	DQ12	I/O	Data input / output
	38	Vssq	_	Ground for data output	81	VDDQ	_	Power supply for data output
	39	DQ21	I/O	Data input / output	82	DQ13	I/O	Data input / output
	40	DQ22	I/O	Data input / output	83	DQ14	I/O	Data input / output
	41	VDDQ	-	Power supply for data output	84	VssQ	-	Ground for data output
L	42	DQ23	I/O	Data input / output	85	DQ15	I/O	Data input / output
L	43	VDD	_	Power supply	86	Vss	_	Ground

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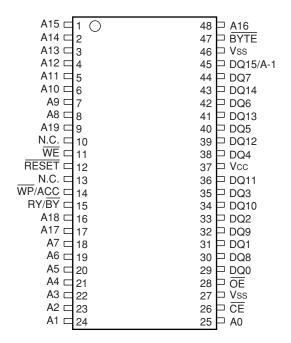
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## ■ MBM29DL162TE70TN (MR MAIN ASSY : IC5207, IC7002)

16M Flash for Carrera MANTA

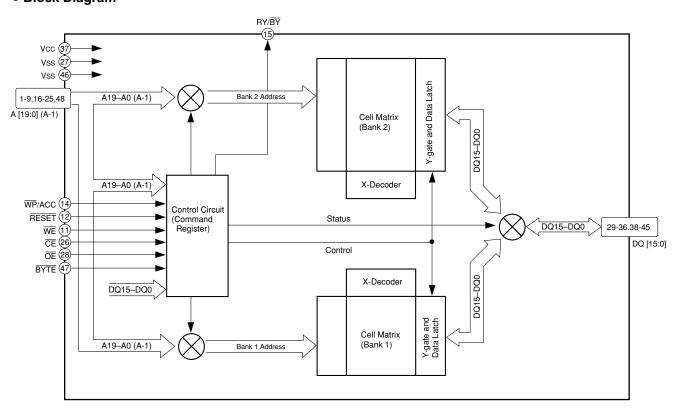
## • Pin Arrangement (Top view)

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#### Block Diagram

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## • Pin Function

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~ 1 111	i diletion		
No.	Pin Name	I/O	Pin Function
1	A15	- 1	Address input
2	A14	- 1	Address input
3	A13	I	Address input
4	A12	1	Address input
5	A11	1	Address input
6	A10	1	Address input
7	A9	1	Address input
8	A8	I	Address input
9	A19	I	Address input
10	N.C.	I	No connection
11	WE	I	Write enable input
12	RESET	1	Hardware reset
13	N.C.	_	No connection
14	WP/ACC	1	Hardware write protect / Acceleration
15	RY/BY	0	Ready / Busy output
16	A18	1	Address input
17	A17	1	Address input
18	A7	1	Address input
19	A6	1	Address input
20	A5	1	Address input
21	A4	I	Address input
22	A3	1	Address input
23	A2	1	Address input
24	A1	I	Address input
25	A0	I	Address input
26	CE	I	Chip enable input
27	Vss		Ground
28	ŌĒ	I	Output enable input
29	DQ0	I/O	Data input / output
30	DQ8	I/O	Data input / output
31	DQ1	I/O	Data input / output
32	DQ9	I/O	Data input / output
33	DQ2	I/O	Data input / output
34	DQ10	I/O	Data input / output
35	DQ3	I/O	Data input / output
36	DQ11	I/O	Data input / output
37	Vcc		Power supply
38	DQ4	I/O	Data input / output
39	DQ12	I/O	Data input / output
40	DQ5	I/O	Data input / output
41	DQ13	I/O	Data input / output
42	DQ6	I/O	Data input / output
43	DQ14	I/O	Data input / output
44	DQ7	I/O	Data input / output
45	DQ15/A-1	I/O	Data input / output / Address input
46	Vss		Ground
47	BYTE	I	Selects 8-bit or 16-bit mode
48	A16	I	Address input

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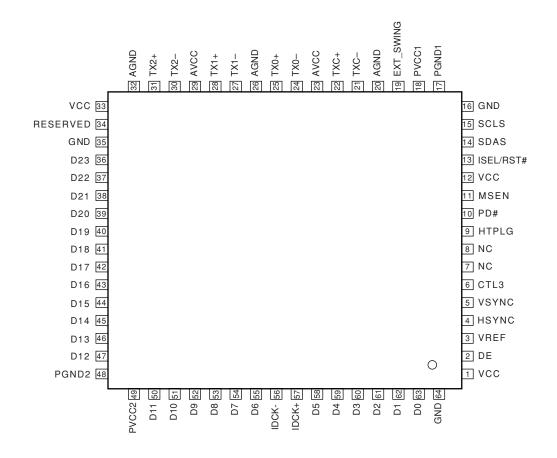
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## ■ SII170BCLG64 (MR MAIN ASSY : IC7202)

• DVI Tx

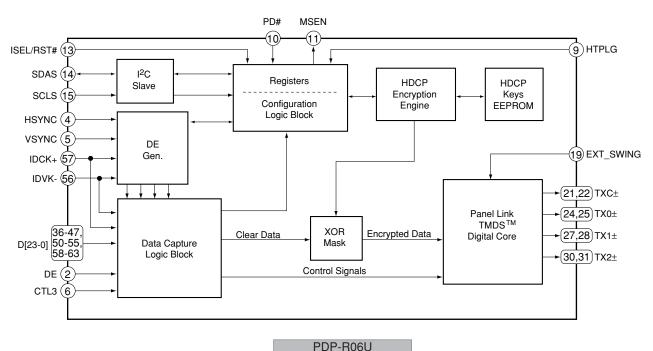
### Pin Arrangement (Top view)

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#### Block Diagram

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## Pin Function

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No.	Pin Name	I/O	Pin Function
1	VCC	-	Digital power supply (3.3V)
2	DE	-	Data enable
3	VREF	-	3.3V fixed
4	HSYNC	_	Horizontal sync. control signal input
5	VSYNC	1	Vertical sync. control signal input
6	CTL3	1	External CTL3 input
7	NC	ı	No connection
8	NC	ı	No connection
9	HTPLG	_	Monitor chrage input
10	PD#	_	Power down input (Active low)
11	MSEN	0	Monitor sense output (open-collector output)
12	VCC	ı	Digital power supply (3.3V)
13	ISEL/RST#	-	I2C interface selecting input High: I2C interface is active
14	SDAS	1/0	DDC I2C data input/output
15	SCLS	_	DDC I2C clock input
16	GND	-	Digital ground
17	PGND1	-	PLL analog ground
18	PVCC1	ı	Analog power supply for PLL of primary side (3.3V)
19	EXT_SWING	1	Voltage regulation adjustment
20	AGND	ı	Analog ground
21	TXC-	0	Differential signal clock output of TMDS Low voltage
22	TXC+	0	Differential signal clock output of TMDS Low voltage
23	AVCC	ı	Analog power supply (3.3V)
24	TX0-	0	Differential signal clock output of TMDS Low voltage
25	TX0+	0	Differential signal clock output of TMDS Low voltage
26	AGND	-	Analog ground
27	TX1-	0	Differential signal clock output of TMDS Low voltage
28	TX1+	0	Differential signal clock output of TMDS Low voltage
29	AVCC	-	Analog power supply (3.3V)
30	TX2-	0	Differential signal clock output of TMDS Low voltage
31	TX2+	0	Differential signal clock output of TMDS Low voltage
32	AGND	-	Analog ground
33	VCC	ı	Digital power supply (3.3V)
34	RESERVED	-	Reserved pin for Silicon Image Normally, fixed to low.
35	GND	1	Digital ground
36	D23	I	24-bit pixel bus input
37	D22	I	24-bit pixel bus input
38	D21	I	24-bit pixel bus input
39	D20	I	24-bit pixel bus input
40	D19	I	24-bit pixel bus input

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No.	Pin Name	I/O	Pin Function
	D18		
41		I	24-bit pixel bus input
42	D17		24-bit pixel bus input
43	D16	I	24-bit pixel bus input
44	D15	I	24-bit pixel bus input
45	D14	I	24-bit pixel bus input
46	D13	I	24-bit pixel bus input
47	D12	1	24-bit pixel bus input
48	PGND2	_	PLL analog ground
49	PVCC2	_	Analog power supply for filter PLL (3.3V)
50	D11	1	24-bit / 12-bit pixel bus input
51	D10	I	24-bit / 12-bit pixel bus input
52	D9	I	24-bit / 12-bit pixel bus input
53	D8	1	24-bit / 12-bit pixel bus input
54	D7	1	24-bit / 12-bit pixel bus input
55	D6	1	24-bit / 12-bit pixel bus input
56	IDCK-	I	Data clock - input
57	IDCK+	- 1	Data clock + input
58	D5	I	24-bit / 12-bit pixel bus input
59	D4	I	24-bit / 12-bit pixel bus input
60	D3	- 1	24-bit / 12-bit pixel bus input
61	D2	I	24-bit / 12-bit pixel bus input
62	D1	I	24-bit / 12-bit pixel bus input
63	D0	I	24-bit / 12-bit pixel bus input
64	GND	_	Digital ground

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## ■ AXY1117 (MR MAIN ASSY: U4201)

• 3 Outputs DD Control Unit

## • Pin Arrangement

	Vin	<u> </u>	14 🗌	Vo2
В	Vin	_ 2	13 🗌	Vo2
	GND	□ 3		
	GND	<u> </u>	12 🗌	GND
	ON/OFF	□ 5		
	GND	□ 6	11 🗌	GND
			10 🗌	GND
С			9 🗌	Vo1
	Vo3	<u> </u>	8 🗌	Vo1

## Pin Function

No.	Pin Name	Pin Function	
1	Vin	land.	
2	Vin	Input Input	
3	GND		
4	GND	Ground for input side	
5	ON/OFF	Output ON/OFF	
6	GND	Ground for output side	
7	Vo3	1.8V output	
8	Vo1	3.3V output	
9	Vo1	3.3V output	
10	GND	Ground for output side	
11	GND		
12	GND		
13	Vo2	1.2V output	
14	Vo2	1.2V output	

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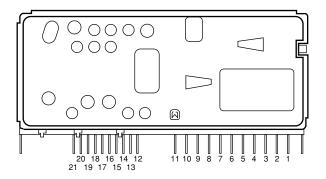
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## ■ AXF1130 (MR MAIN ASSY : U4401)

• Front End

## • Pin Arrangement

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## Pin Function

No.	Pin Name	Pin Function
1	AGC	AGC (4.0V gain max.)
2	TU	Power supply for tuner
3	ADRS	
4	SCL	Terminal for I <sup>2</sup> C bus control
5	SDA	
6	NC	No connection
7	V SUPPLY	5.0V
8	IF SW	0V/5.0V
9	BTL	30.0V
10	NC	No connection
11	IF1	IF
12	NC	No connection
13	BV	5.0V
14	AUDIO OUT	Audio output
15	GND	Ground
16	AFT	AFT output
17	AGC OUT	AGC output
18	VIDEO OUT	Video output
19	NC	No connection
20	GND	Ground
21	NC	No connection

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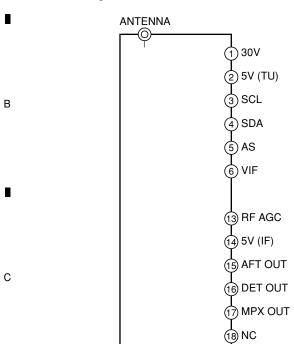
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## ■ AXF1148 (MR MAIN ASSY : U4402)

• Front End

## • Pin Arrangement



## Pin Function

No.	Pin Name	Pin Function	
1	30V	Power supply for 30V	
2	5V (TU)	Power supply for tuner	
3	SCL	T	
4	SDA	Terminal for CH selection serial data	
5	AS	Address selection	
6	VIF	VIF output	
13	RF AGC	RF AGC terminal	
14	5V (IF)	Power supply for IF	
15	AFT OUT	Analog AFT output	
16	DET OUT	VIDEO output (Typical = 1.0Vp-p)	
17	MPX OUT	MPX output	
18	NC	No connection	

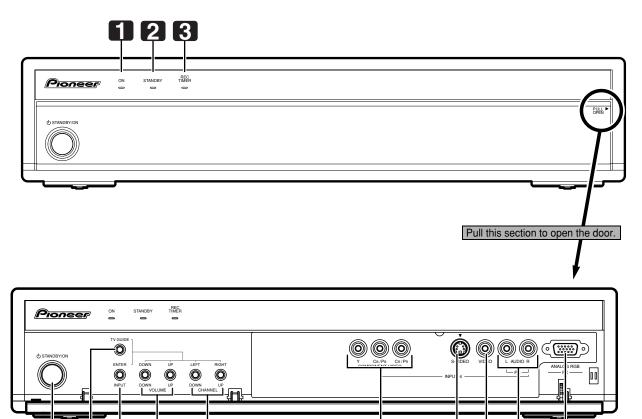
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PDP-R06U

## 8. PANEL FACILITIES

#### **■** Front view



1 POWER ON indicator

4567

- 2 STANDBY indicator
- 3 REC TIMER indicator
- 4 STANDBY/ON button
- 5 TV GUIDE button\*

5

- **6 INPUT** button (**ENTER** button\*)
- 7 VOLUME UP/DOWN buttons (UP/DOWN buttons\*)
- 8 CHANNEL UP/DOWN buttons (LEFT/RIGHT buttons\*)

9 INPUT 4 terminals (COMPONENT VIDEO: Y, CB/PB, CR/PR)

101112 13

- **10** INPUT 4 terminal (S-VIDEO)
- 11 INPUT 4 terminal (VIDEO)

7

- 12 INPUT 4/PC terminals (AUDIO)
- 13 PC INPUT terminal (ANALOG RGB)

The buttons with asterisks (\*) can operate the TV Guide On Screen™ system.

101

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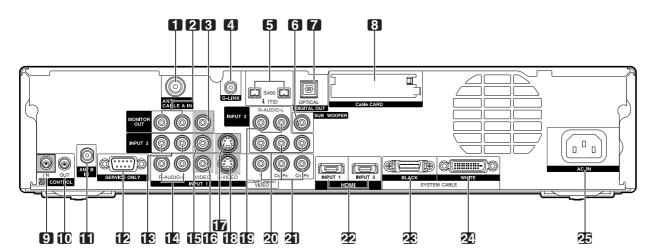
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- 1 ANT/CABLE A IN terminal
- 2 MONITOR OUT terminals (AUDIO)
- 3 MONITOR OUT terminal (VIDEO)
- 4 G-LINK terminal
- 5 i.LINK terminals
- 6 SUB WOOFER terminal
- 7 DIGITAL OUT terminal (OPTICAL)
- 8 CableCARD™ slot
- 9 CONTROL IN terminal
- 10 CONTROL OUT terminal
- 11 ANT B IN terminal
- **12** RS-232C terminal (used for factory setup)
- 13 INPUT 2 terminals (AUDIO)
- 14 INPUT 1 terminals (AUDIO)

15 INPUT 2 terminal (VIDEO)

3

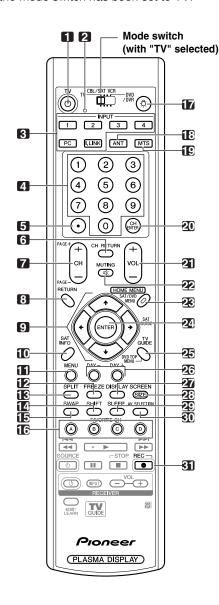
- 16 INPUT 1 terminal (VIDEO)
- 17 INPUT 2 terminal (S-VIDEO)
- **18** INPUT 1 terminal (S-VIDEO)
- 19 INPUT 3 terminals (AUDIO)
- 20 INPUT 3 terminals
  - (COMPONENT VIDEO: Y, CB/PB, CR/PR)
- 21 INPUT 1 terminals
  - (COMPONENT VIDEO: Y, CB/PB, CR/PR)
- 22 HDMI terminals (INPUT1/INPUT3)
- 23 SYSTEM CABLE terminal (BLACK)
- 24 SYSTEM CABLE terminal (WHITE)
- 25 AC IN terminal

•

#### ■ Remote control unit

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This section describes the functions of the buttons available when the mode switch has been set to TV.



- 1 **TV**  $\circlearrowleft$ : Turns on the power to the Plasma Display or places it into standby mode.
- 2 Transmission confirmation LED
- 3 INPUT: Selects an input source of the Plasma Display. (INPUT 1, INPUT 2, INPUT 3, INPUT 4, PC, i.LINK)
- 4 0 9: Selects the channel.
- 5 (dot): Enters a dot.
- 6 CH RETURN: Returns to the previous channel. This button is disabled while the TV Guide On Screen™ system is displayed.
- 7 CH +/-: Selects the channel.

5

- **PAGE** +/– (for the TV Guide On Screen<sup>™</sup> system): Scrolls the program listing screen vertically.
- 8 RETURN: Returns to the previous menu screen.
- **9** +/ +/ +: Selects a desired item on the menu screen.

- 10 INFO: Displays a channel banner when a TV program is being watched.
  - When the TV Guide On Screen, system is in operation, displays information about the currently highlighted channel (if available).
- 11 MENU: Displays a panel menu in the TV Guide On Screen™ system.
- **12 FREEZE**: Freezes a frame from a moving image. Press again to cancel the function.
- **13 SPLIT**: Switches the screen mode among 2-screen, picture-in-picture, and single-screen.
- **14 SHIFT**: Moves the location of the small screen when in the picture-in-picture mode.
- **15 SWAP**: Switches between the two screens when in the 2-screen or picture-in-picture mode.
- 16 FAVORITE CH (A, B, C, D): Selects any of the four preset channels. While watching, you can toggle the set channels by pressing A, B, C and D.
- 17 \(\tilde{\to}\): When pressed, all buttons on the remote control unit will light. The lighting will turn off if no operations are performed within about 5 seconds.

This button is used for performing operations in dark places.

- **18 ANT**: Selects the antenna (A, B).
- 19 MTS: Selects the MTS/SAP.
- 20 CH ENTER: Executes a channel number.
- 21 VOL +/-: Sets the volume.
- 22 MUTING: Mutes the sound.
- 23 HOME MENU: Displays the Home Menu screen.
- 24 ENTER: Executes a command.
- **25 TV GUIDE**: Displays the TV Guide On Screen™ system.
- 26 DAY +/-: Jumps to the next or previous day of program listings in the TV Guide On Screen™ Listing service.
- 27 **DISPLAY**: Displays the channel information.
- 28 SCREEN SIZE: Selects the screen size.
- 29 SLEEP: Sets the sleep timer.
- **30 AV SELECTION**: Selects audio and video settings. (AV mode: STANDARD, DYNAMIC, MOVIE, GAME, USER. PC mode: STANDARD, USER.)
- 31 (REC): When using the TV Guide On Screen<sup>TM</sup> System, starts recording with a connected VCR or D-VHS recorder.

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A ■ Cleaning

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• Before shipping out the product, be sure to clean the following positions by using the prescribed cleaning tools:

11 0 1	,	01 , 0 1
Position to be cleaned	Cleaning tools	Remark
Fans	Cleaning paper : GED-008	Refer to "2.3 EXTERIOR SECTION", "7.1.2 DISASSEMBLY SECTION".

## Pioneer sound.vision.soul

# Service Manual



ORDER NO. ARP3280

MEDIA RECEIVER

## PDP-R06U PRO-R06U

## THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Model	Туре	Power Requirement	Remarks
PDP-R06U	KUCXJ	AC 120V	
PRO-R06U	KUCXJ	AC 120V	

## This service manual should be used together with the following manual(s).

Model No.	Order No.	Remarks
PDP-R06U, PRO-R06U	ARP3279	EXPLODED VIEWS, BLOCK DIAGRAM etc.



For details, refer to "Important Check Points for good servicing".

PIONEER CORPORATION 4-1, Meguro 1-chome, Meguro-ku, Tokyo 153-8654, Japan PIONEER ELECTRONICS (USA) INC. P.O. Box 1760, Long Beach, CA 90801-1760, U.S.A. PIONEER EUROPE NV Haven 1087, Keetberglaan 1, 9120 Melsele, Belgium PIONEER ELECTRONICS ASIACENTRE PTE. LTD. 253 Alexandra Road, #04-01, Singapore 159936 © PIONEER CORPORATION 2005

## SAFETY INFORMATION



This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.

Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

#### WARNING

This product contains lead in solder and certain electrical parts contain chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm.

Health & Safety Code Section 25249.6 - Proposition 65

#### NOTICE

(FOR CANADIAN MODEL ONLY)

Fuse symbols - (fast operating fuse) and/or - (slow operating fuse) on PCB indicate that replacement parts must be of identical designation.

#### **REMARQUE**

(POUR MODÈLE CANADIEN SEULEMENT)

Les symboles de fusible - (fusible de type rapide) et/ou - (fusible de type lent) sur CCI indiquent que les pièces de remplacement doivent avoir la même désignation.

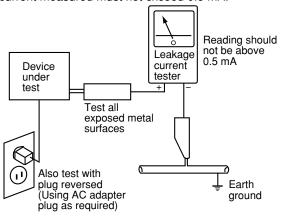
#### (FOR USA MODEL ONLY)

### 1. SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

#### LEAKAGE CURRENT CHECK

Measure leakage current to a known earth ground (water pipe, conduit, etc.) by connecting a leakage current tester such as Simpson Model 229-2 or equivalent between the earth ground and all exposed metal parts of the appliance (input/output terminals, screwheads, metal overlays, control shaft, etc.). Plug the AC line cord of the appliance directly into a 120V AC 60 Hz outlet and turn the AC power switch on. Any current measured must not exceed 0.5 mA.



AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

#### 2. PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in the appliance have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a  $\triangle$  on the schematics and on the parts list in this Service Manual.

The use of a substitute replacement component which does not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

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PDP-R06U

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In this manual, procedures that must be performed during repairs are marked with the below symbol.

Please be sure to confirm and follow these procedures.

#### Product safety



Please conform to product regulations (such as safety and radiation regulations), and maintain a safe servicing environment by following the safety instructions described in this manual.

① Use specified parts for repair.

Use genuine parts. Be sure to use important parts for safety.

2 Do not perform modifications without proper instructions.

Please follow the specified safety methods when modification(addition/change of parts) is required due to interferences such as radio/TV interference and foreign noise.

3 Make sure the soldering of repaired locations is properly performed.

When you solder while repairing, please be sure that there are no cold solder and other debris. Soldering should be finished with the proper quantity. (Refer to the example)

4 Make sure the screws are tightly fastened.

Please be sure that all screws are fastened, and that there are no loose screws.

5 Make sure each connectors are correctly inserted.

Please be sure that all connectors are inserted, and that there are no imperfect insertion.

6 Make sure the wiring cables are set to their original state.

Please replace the wiring and cables to the original state after repairs. In addition, be sure that there are no pinched wires, etc.

Make sure screws and soldering scraps do not remain inside the product.

Please check that neither solder debris nor screws remain inside the product.

® There should be no semi-broken wires, scratches, melting, etc. on the coating of the power cord.

Damaged power cords may lead to fire accidents, so please be sure that there are no damages. If you find a damaged power cord, please exchange it with a suitable one.

9 There should be no spark traces or similar marks on the power plug.

When spark traces or similar marks are found on the power supply plug, please check the connection and advise on secure connections and suitable usage. Please exchange the power cord if necessary.

10 Safe environment should be secured during servicing.

When you perform repairs, please pay attention to static electricity, furniture, household articles, etc. in order to prevent injuries. Please pay attention to your surroundings and repair safely.

#### 2. Adjustments



To keep the original performance of the products, optimum adjustments and confirmation of characteristics within specification. Adjustments should be performed in accordance with the procedures/instructions described in this manual.

#### 3. Lubricants, Glues, and Replacement parts



Use grease and adhesives that are equal to the specified substance. Make sure the proper amount is applied.

#### 4. Cleaning



For parts that require cleaning, such as optical pickups, tape deck heads, lenses and mirrors used in projection monitors, proper cleaning should be performed to restore their performances.

#### 5. Shipping mode and Shipping screws

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To protect products from damages or failures during transit, the shipping mode should be set or the shipping screws should be installed before shipment. Please be sure to follow this method especially if it is specified in this manual.

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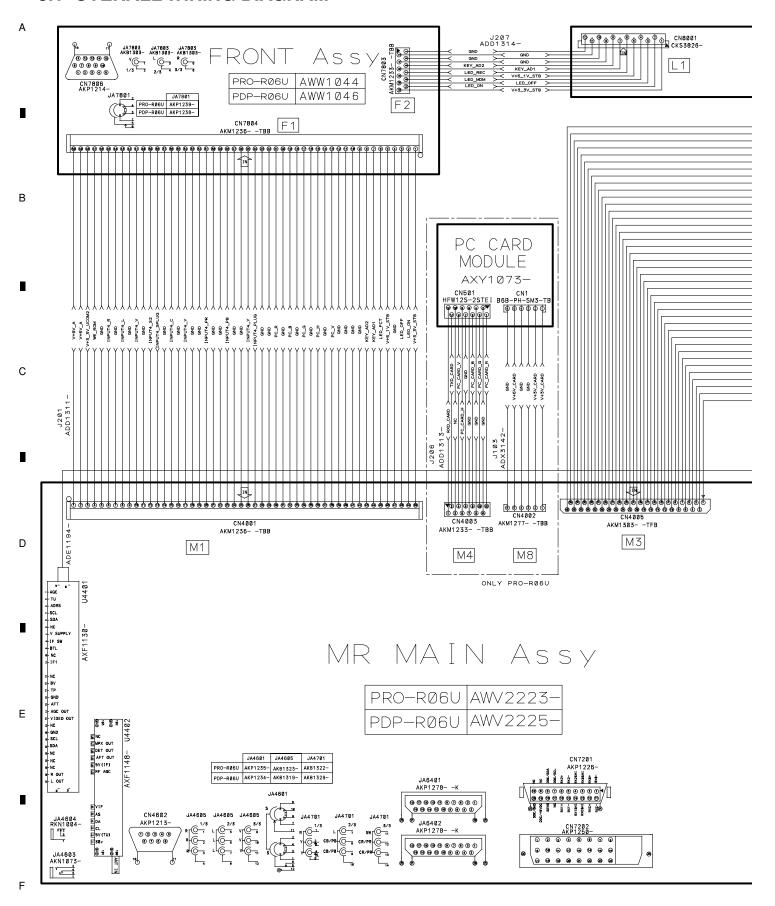
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5 6 7 8 В С D Е 5 PDP-R06U 5 8

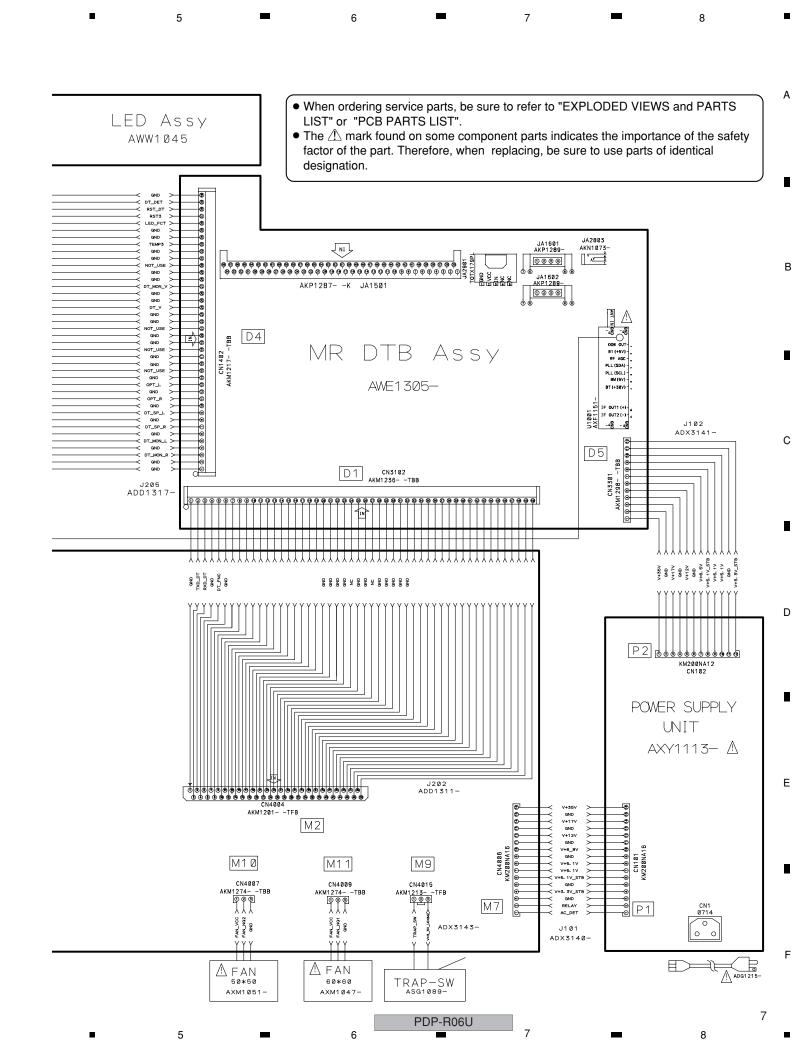
## 3. SCHEMATIC DIAGRAM

## 3.1 OVERALL WIRING DIAGRAM



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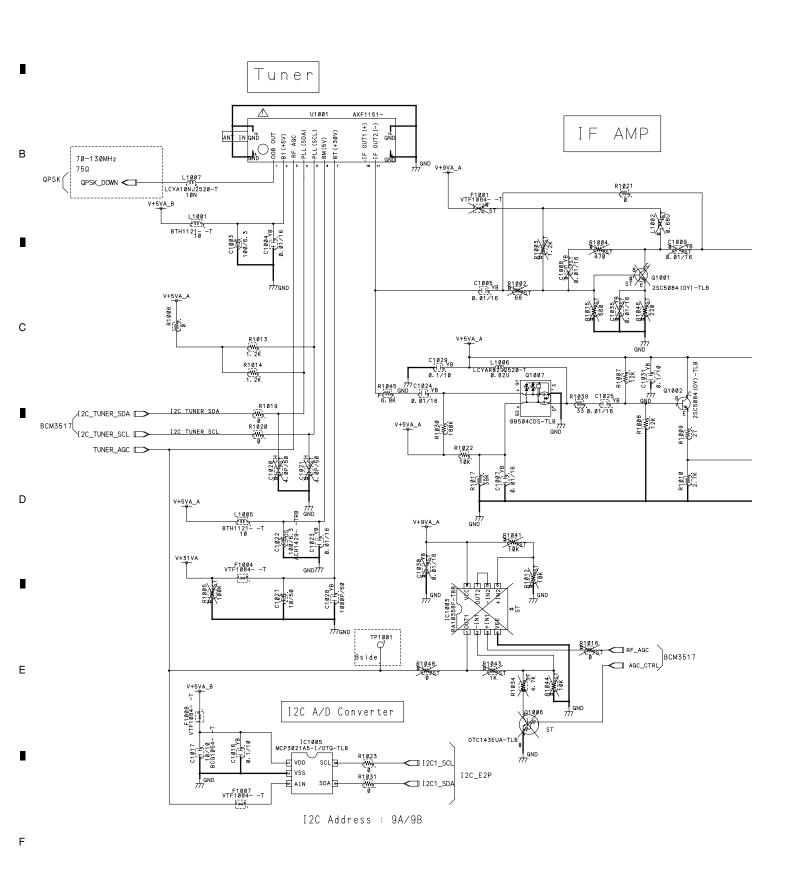
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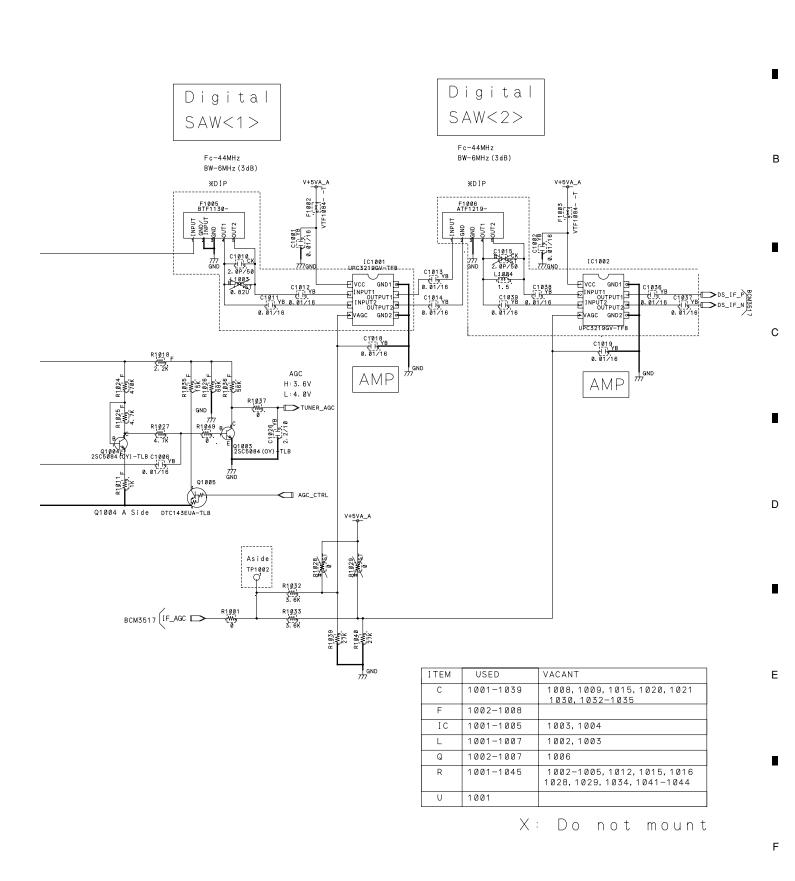
## 3.2 MR DTB ASSY (1/14)

## **MR DTB ASSY (1/14)**

• TUNER / IF BLOCK



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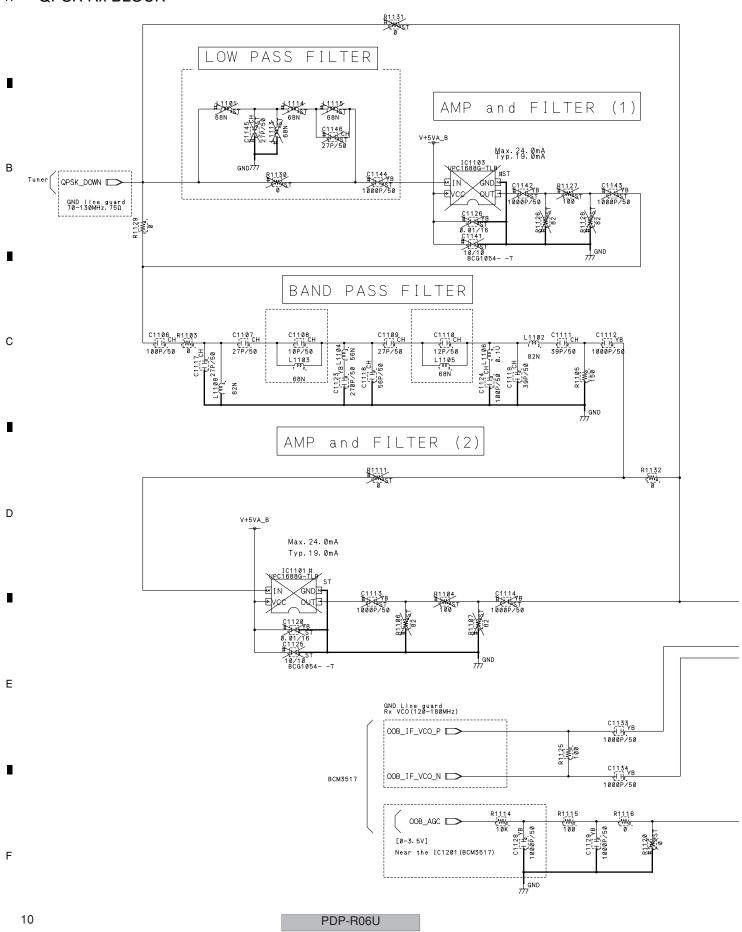
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## 3.3 MR DTB ASSY (2/14)

## **MR DTB ASSY (2/14)**

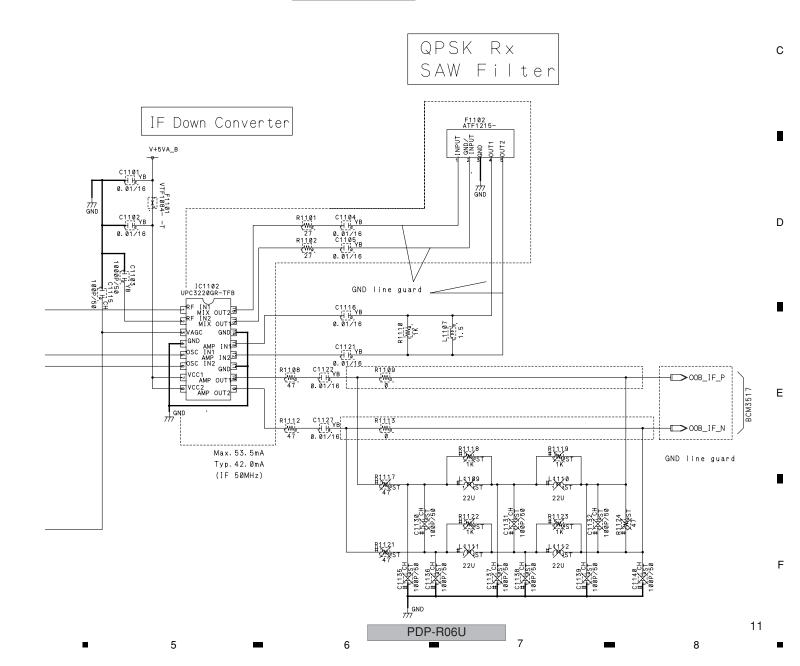
QPSK Rx BLOCK



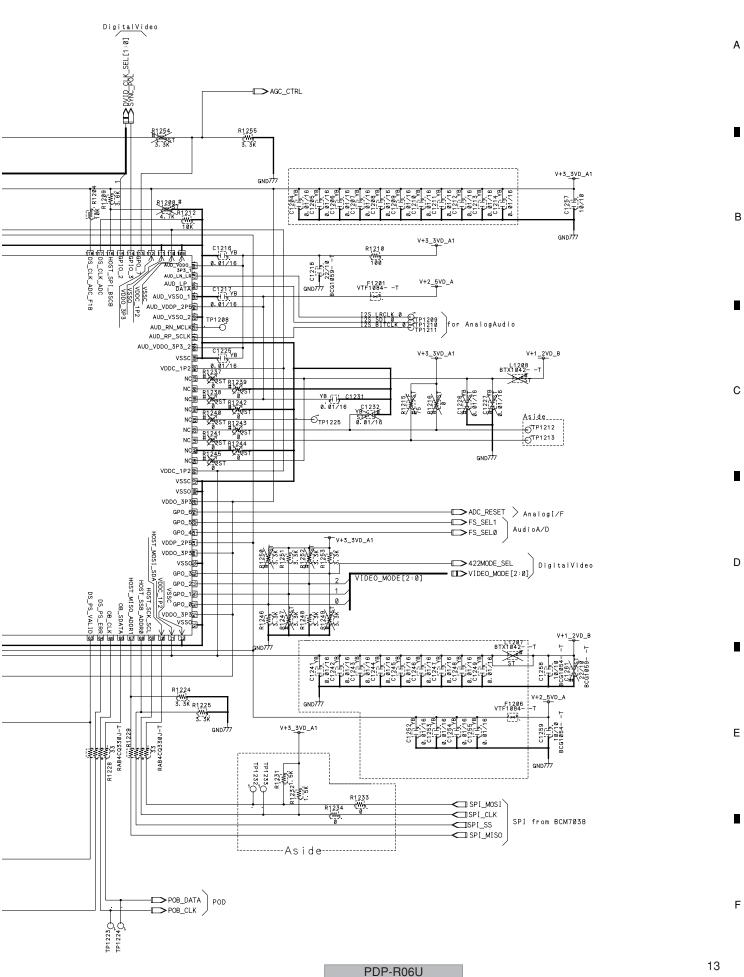
ITEM	USED	VACANT
С	1101-1134	1113, 1114, 1120, 1125, 1126 1130-1132
F	1101-1102	
I C	1102	
L	1102-1108	
Q		
R	1101-1132	1104, 1106, 1107, 1111, 1131 1117-1124, 1126-1128, 1130
_		

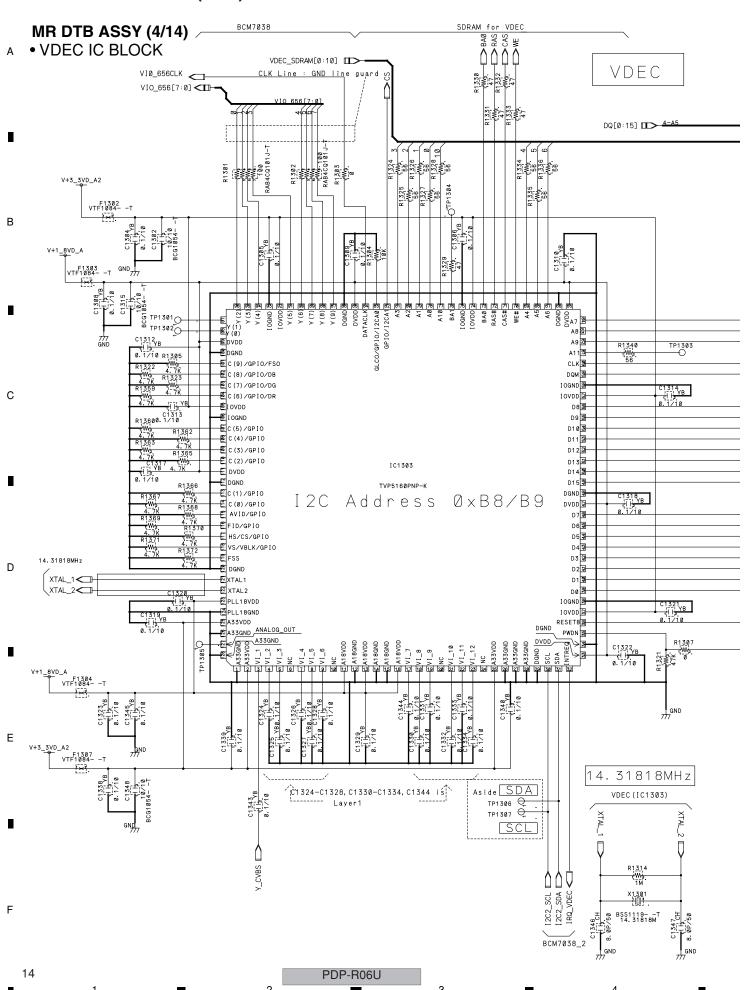
X:Don't mount

QPSK Rx



1201-1259 1202, 1226, 1227, 1232, 1240 3517\_TSOUT\_VALID 1203 1201-1206 DTC//43EUA-TLB 1201 D1202 SML-020MLT-TRB 1201-1203 1201-1255 1202, 1203, 1205, 1208, 1215 1216, 1223, 1226, 1230 1235-1245, 1247, 1249, 1250 7/7 GND 1252, 1254 (<sub>W</sub>)01202 1201 DTC143EUA-TI B X:Don't mount Sync Lock Status PDP-R06U 2





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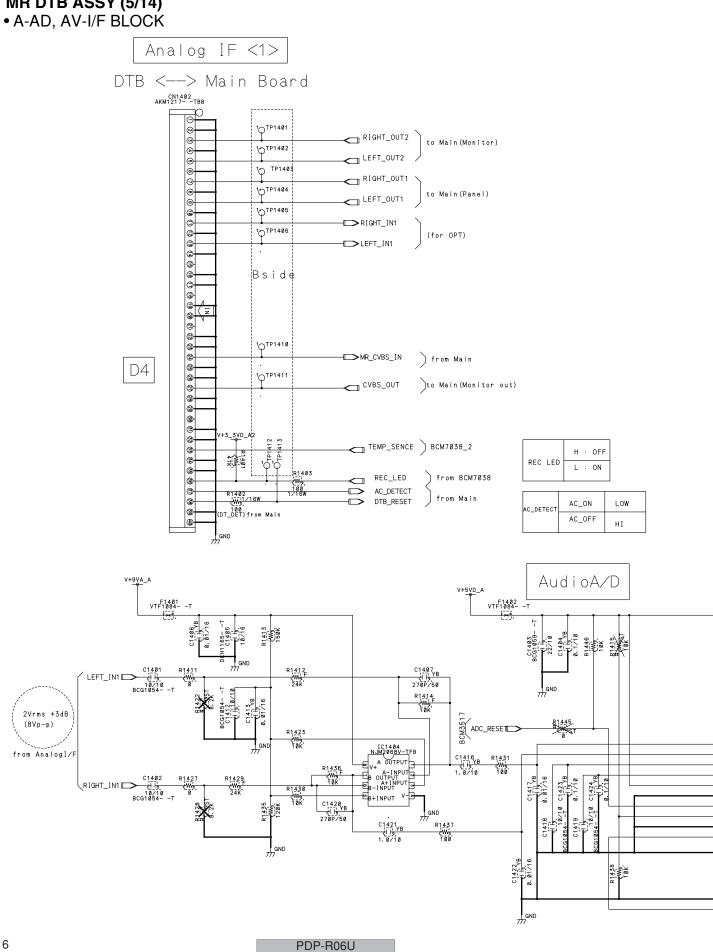
# 3.6 MR DTB ASSY (5/14)

#### **MR DTB ASSY (5/14)**

В

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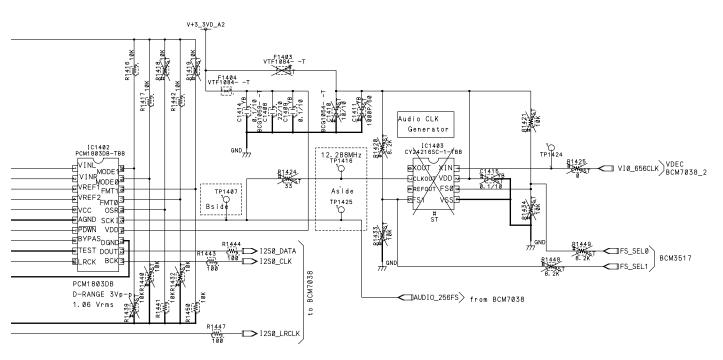
16



USED	VACANT
1401-1424	1410, 1411, 1415
1401-1404	1403
1402,1404	
1401-1450	1404-1410, 1415, 1418-1422 1424-1426, 1428, 1432-1434 1439, 1440, 1445, 1448, 1449
1402	
	1401-1424 1401-1404 1402, 1404  1401-1450

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X:Don't mount



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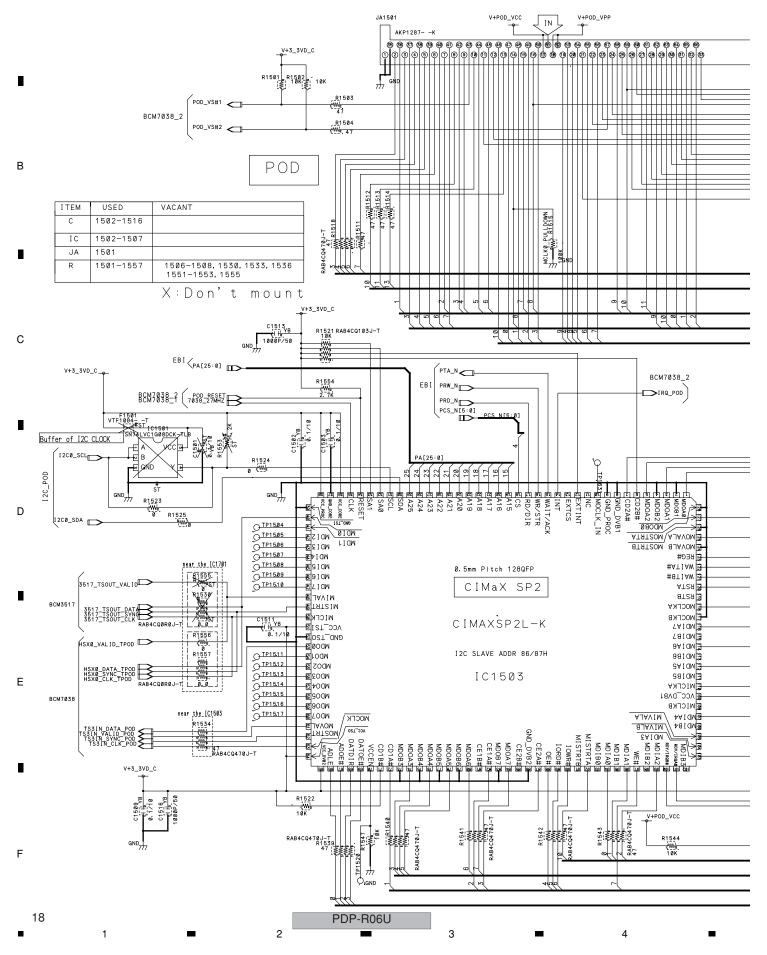
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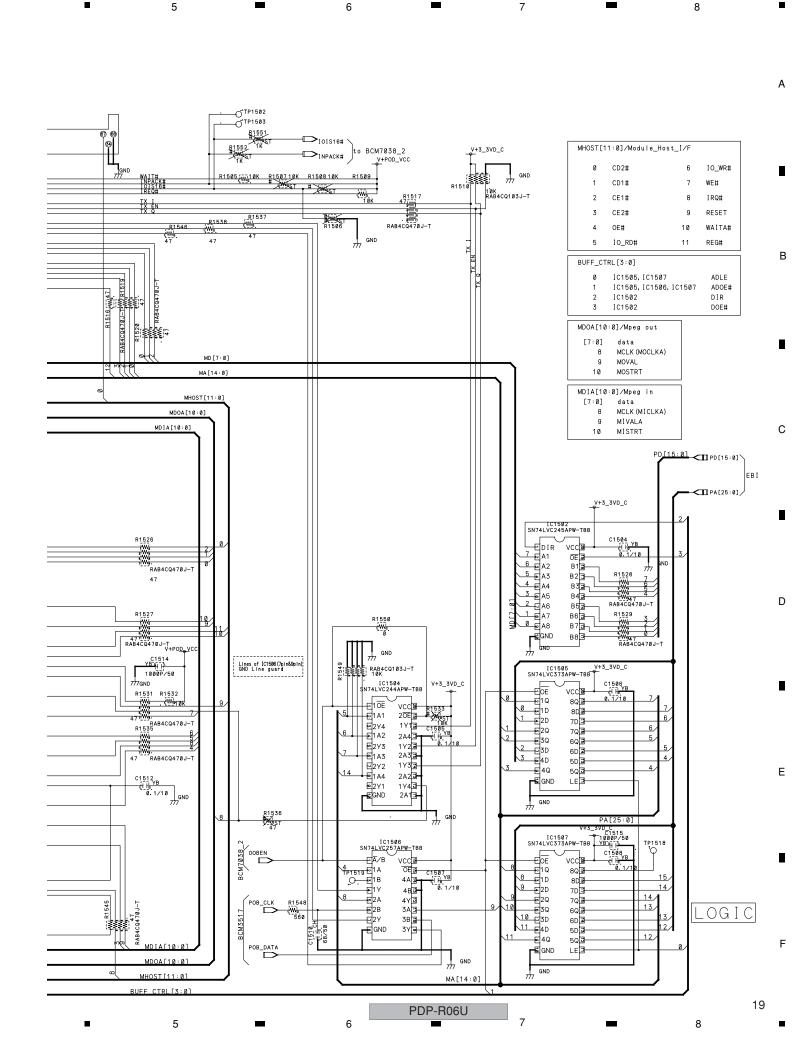
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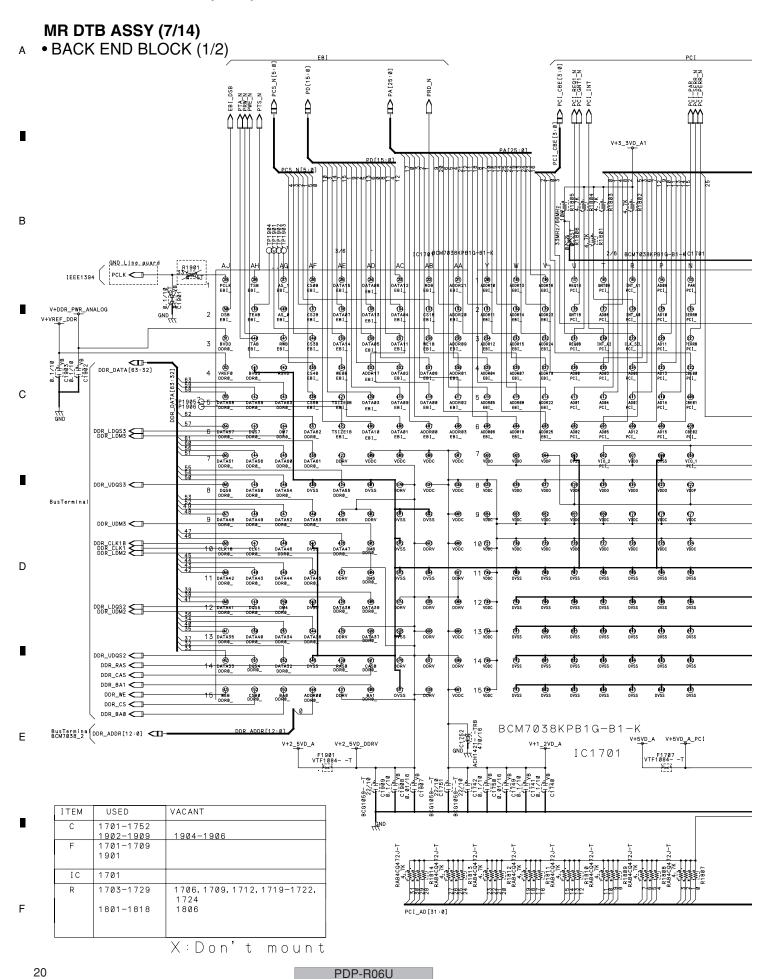
### 3.7 MR DTB ASSY (6/14)

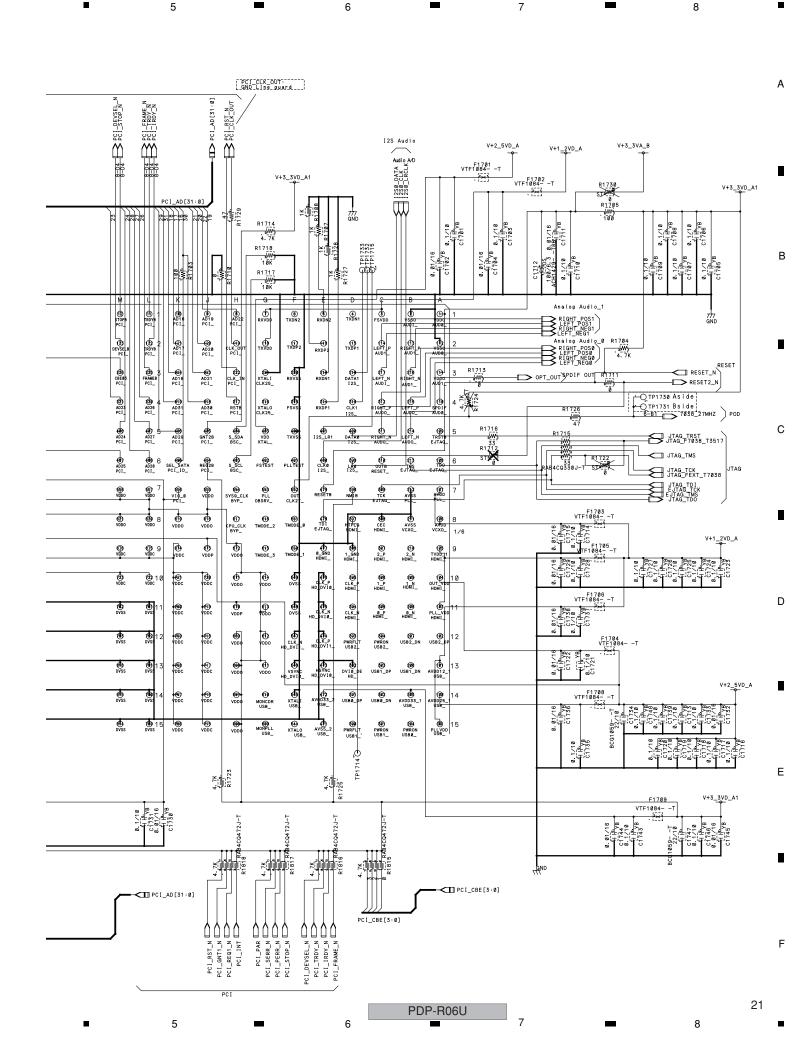
#### **MR DTB ASSY (6/14)**

POD IC BLOCK





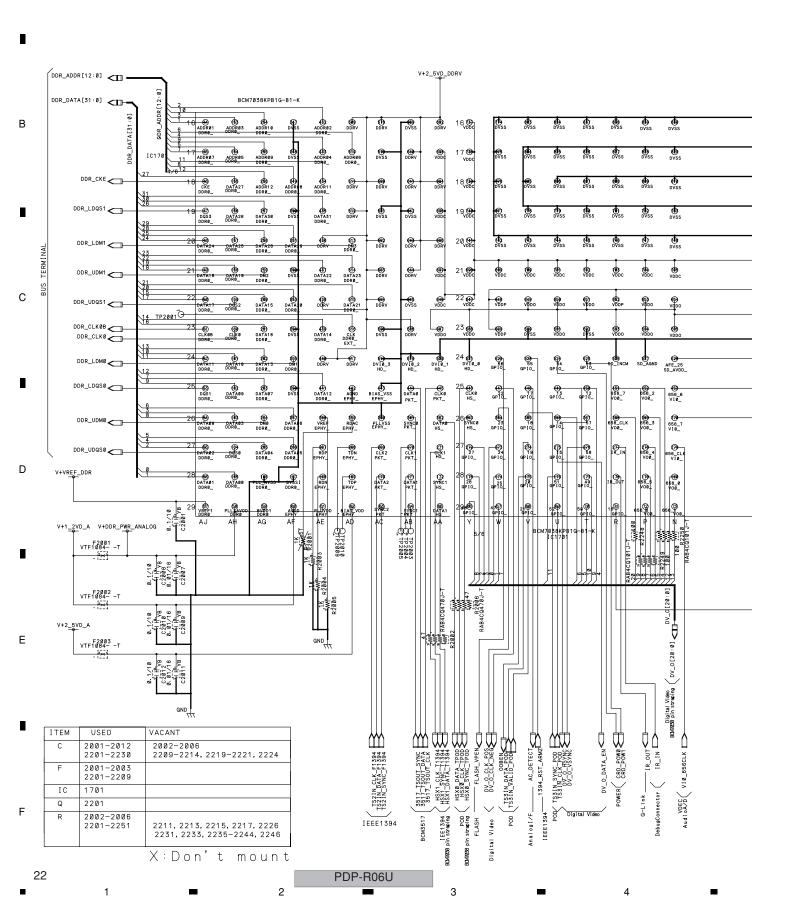


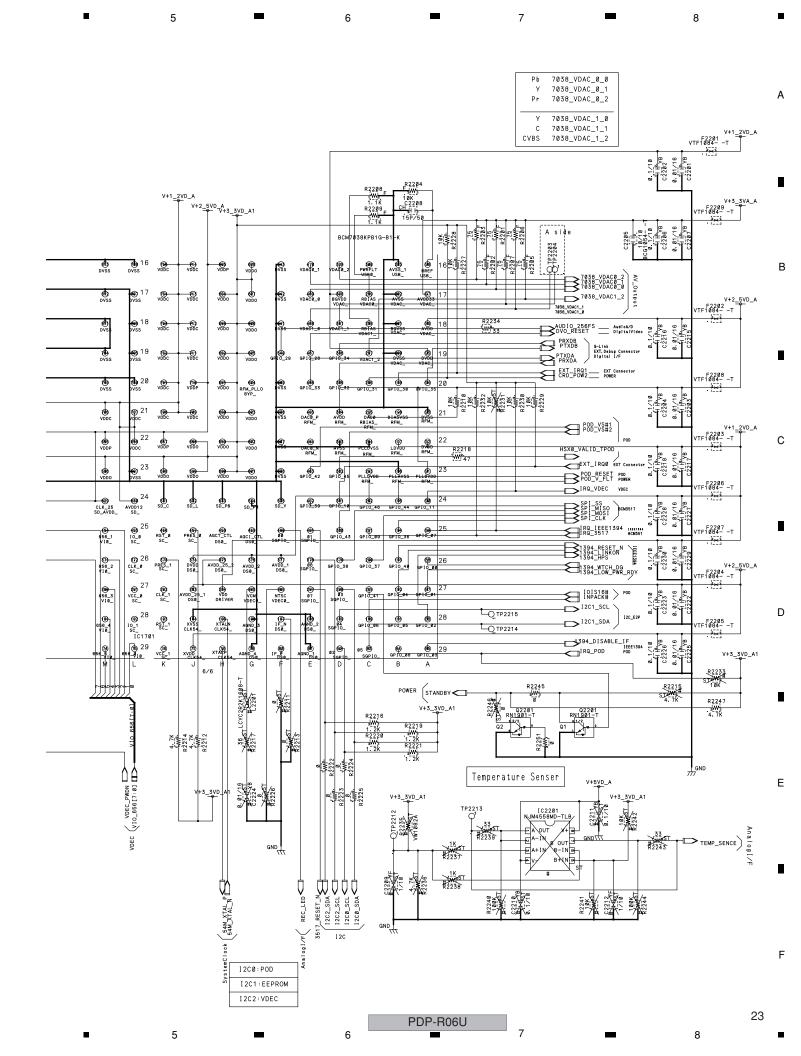


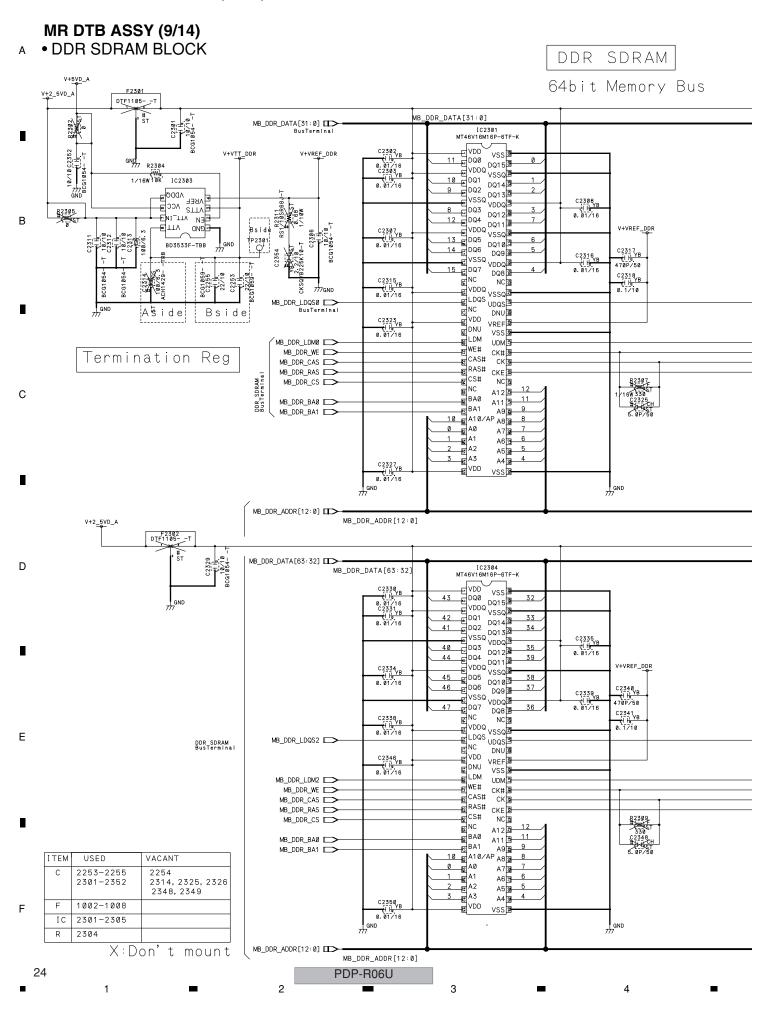
### 3.9 MR DTB ASSY (8/14)

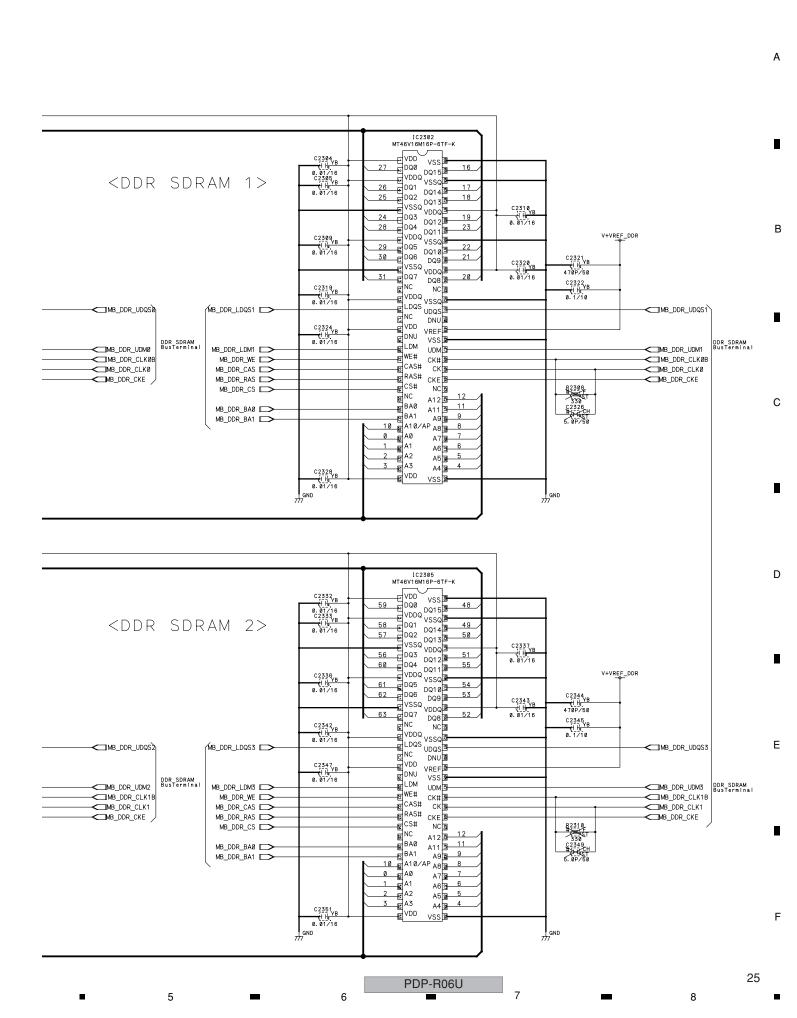
#### **MR DTB ASSY (8/14)**

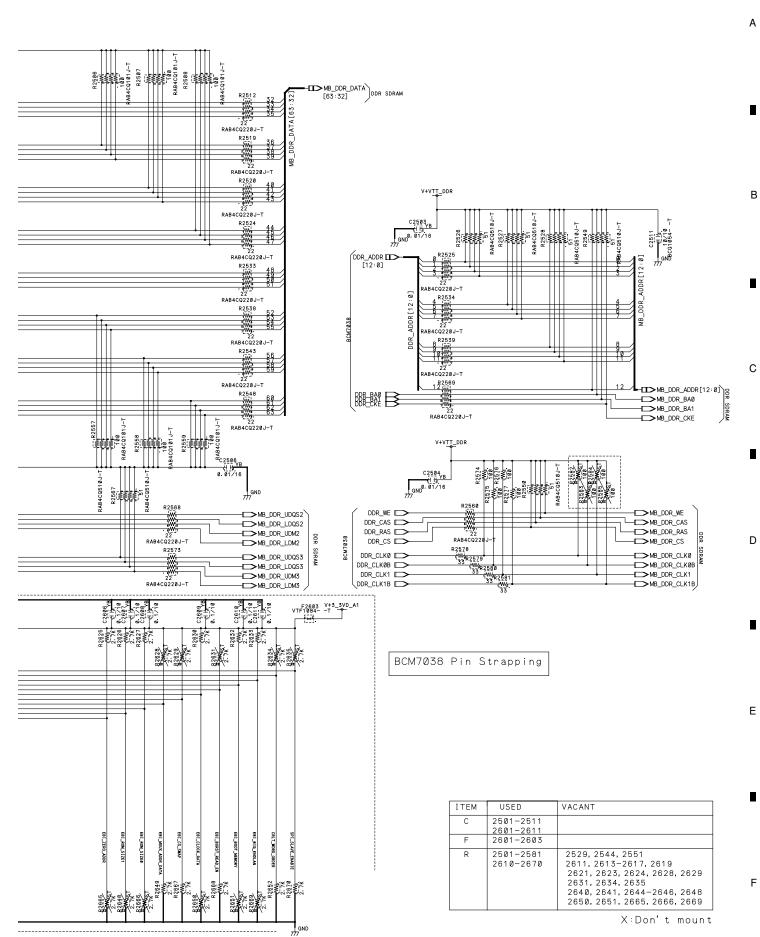
• BACK END BLOCK (2/2)









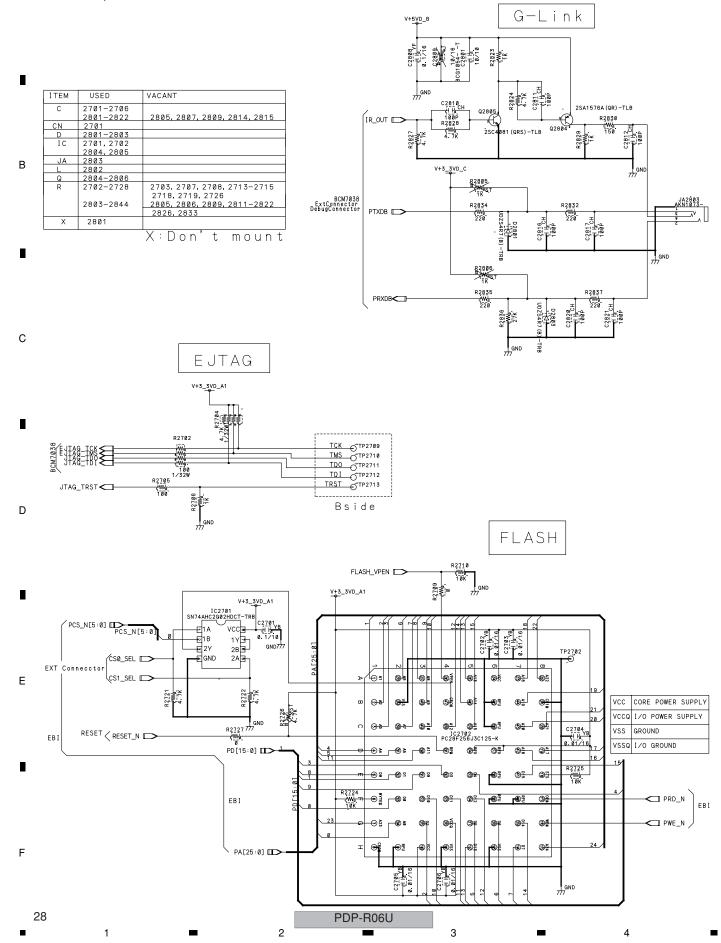


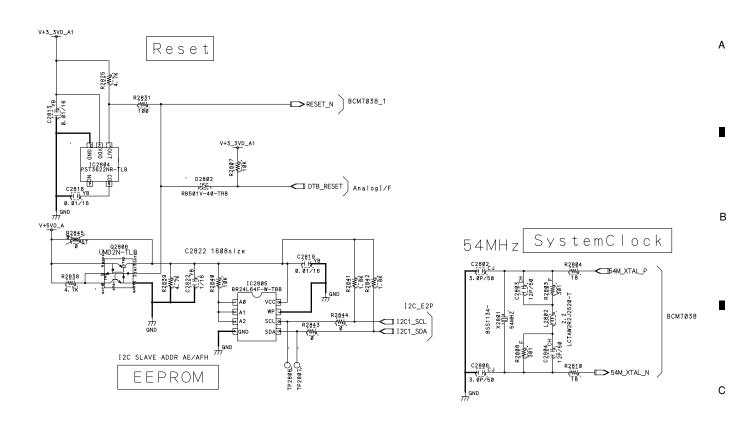
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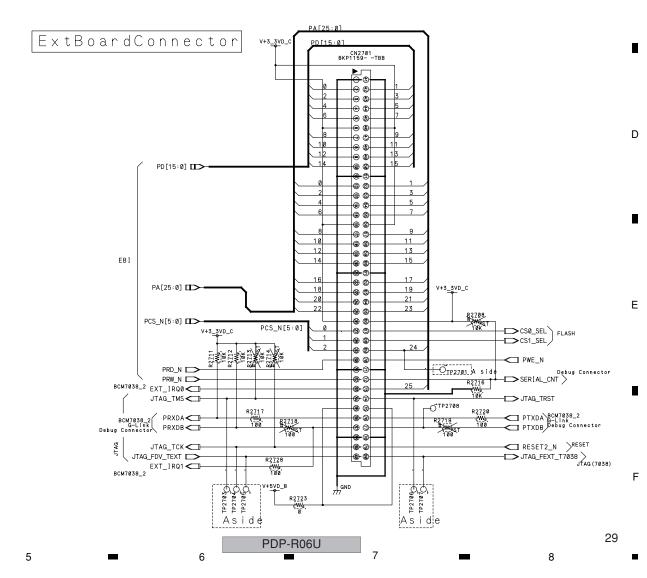
# 3.12 MR DTB ASSY (11/14)

### **MR DTB ASSY (11/14)**

• FLASH, E2P BLOCK



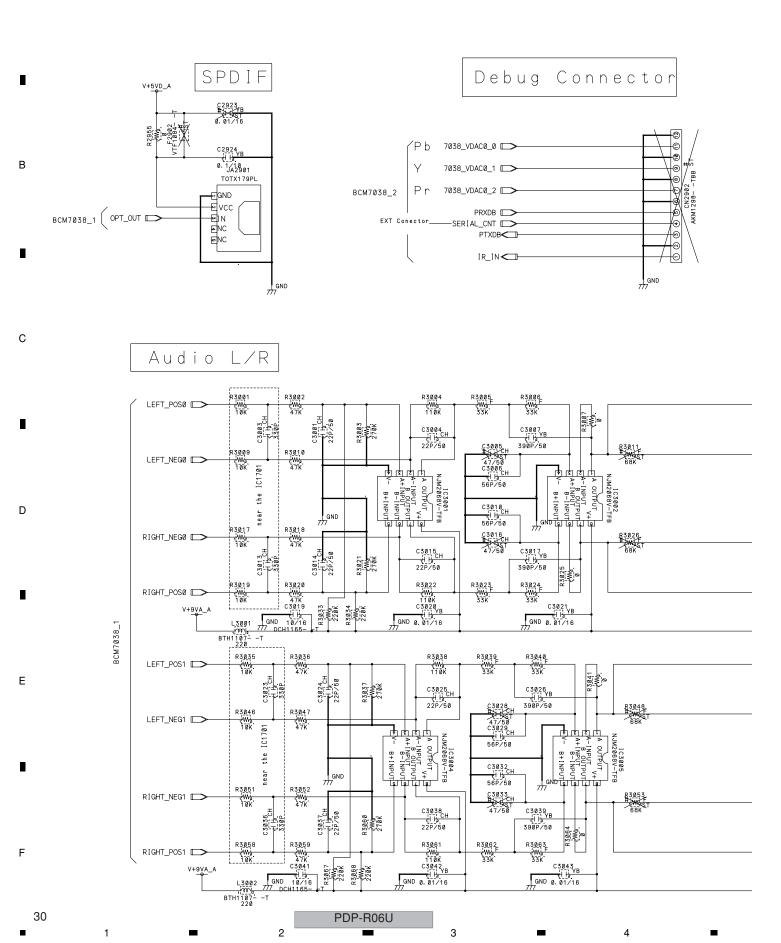


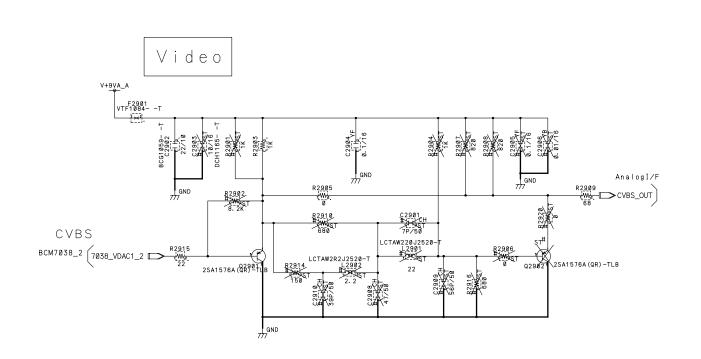


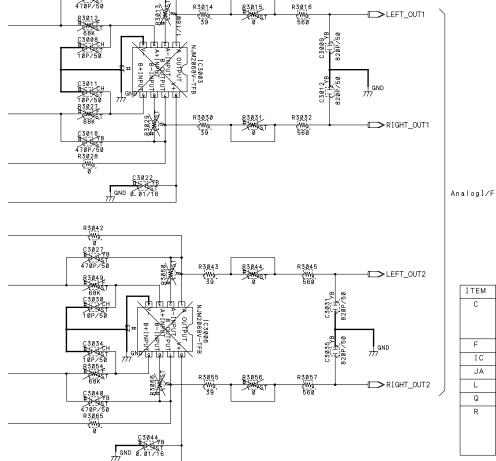
# 3.13 MR DTB ASSY (12/14)

### **MR DTB ASSY (12/14)**

A/V OUT BLOCK







ITEM	USED	VACANT
С	2902-2924 3001-3043	2903, 2905-2923 3002, 3005, 3008, 3011, 3016 3018, 3022, 3027, 3028, 3030 3033, 3034, 3040
F	2901	
IC	3001-3005	3003
JA	2901	
L	3001, 3002	
Q	2901	
R	2903-2915 2955 3001-3068	2904, 2906-2908, 2910-2914 3011-3013, 3015, 3026, 3027 3029, 3031, 3044, 3048-3050 3053, 3054, 3056, 3066

X:Don't mount

31

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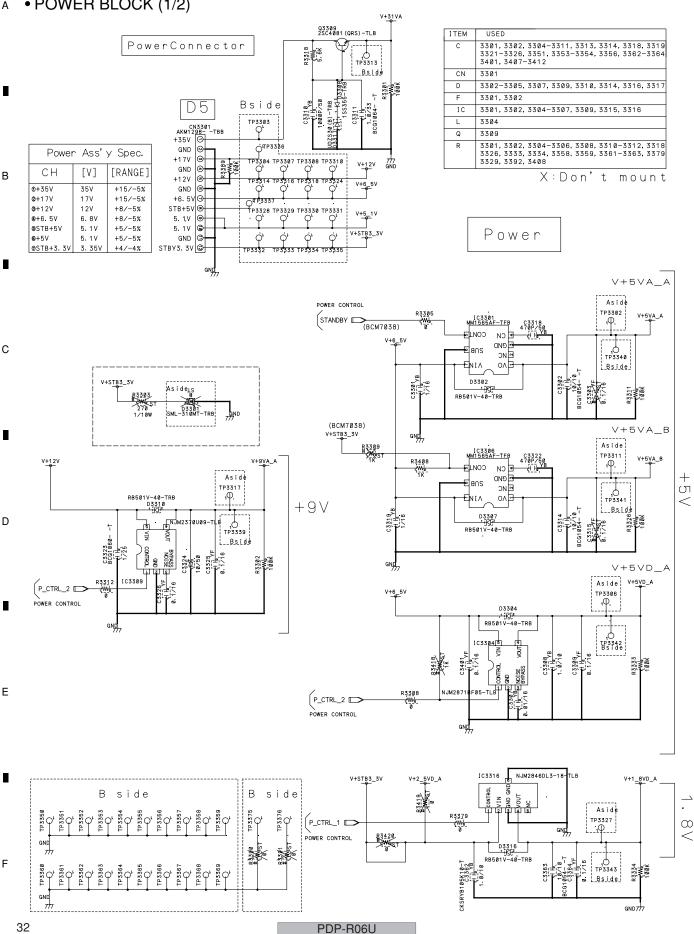
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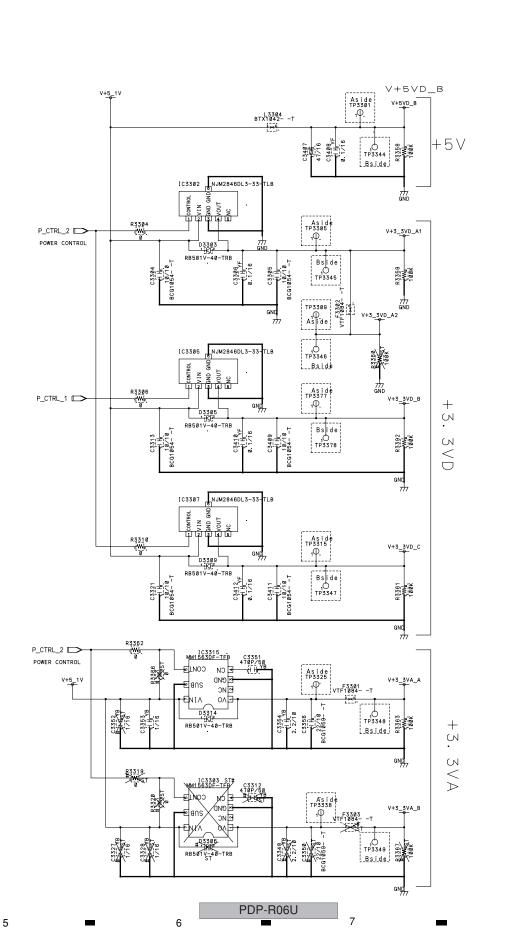
# 3.14 MR DTB ASSY (13/14)

### **MR DTB ASSY (13/14)**

• POWER BLOCK (1/2)



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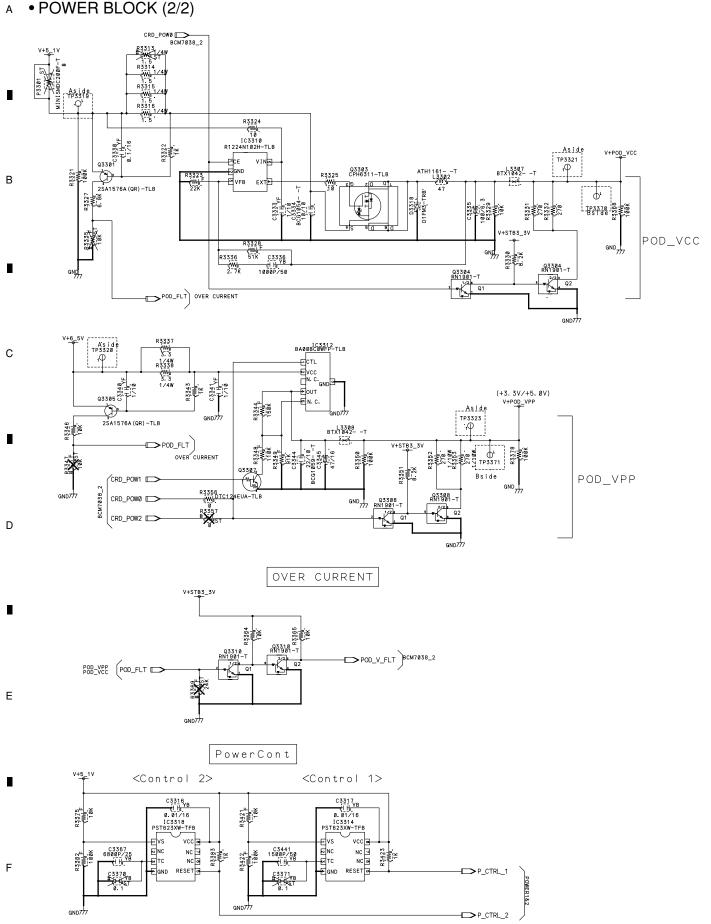
33

# 3.15 MR DTB ASSY (14/14)

#### **MR DTB ASSY (14/14)**

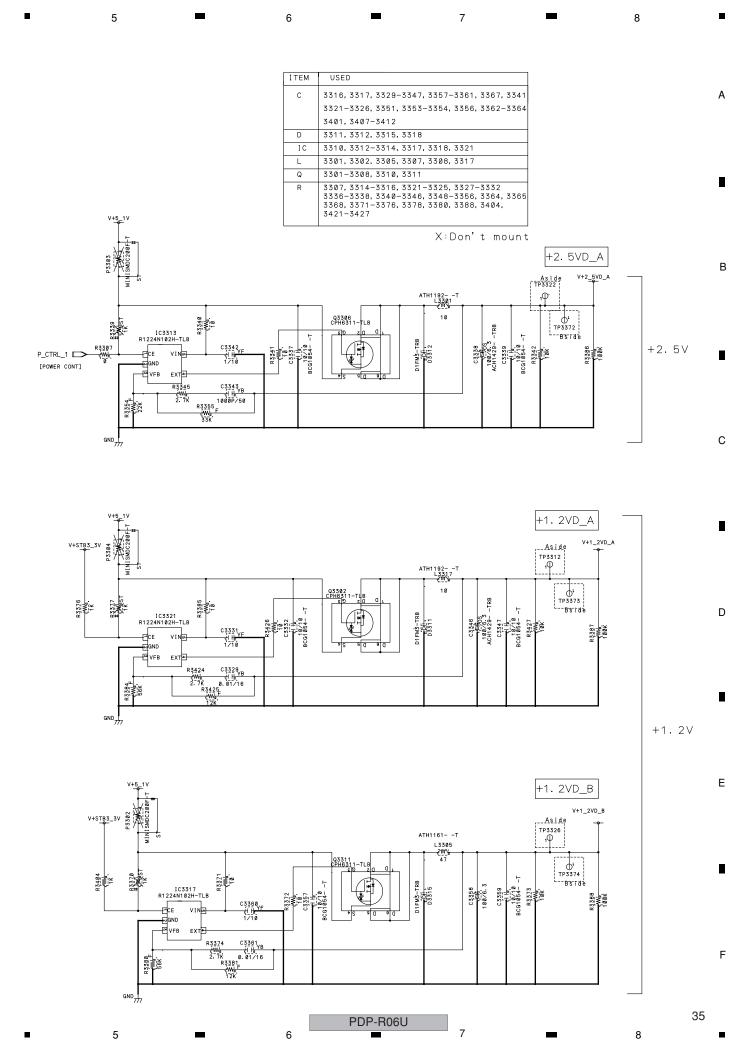
• POWER BLOCK (2/2)

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PDP-R06U

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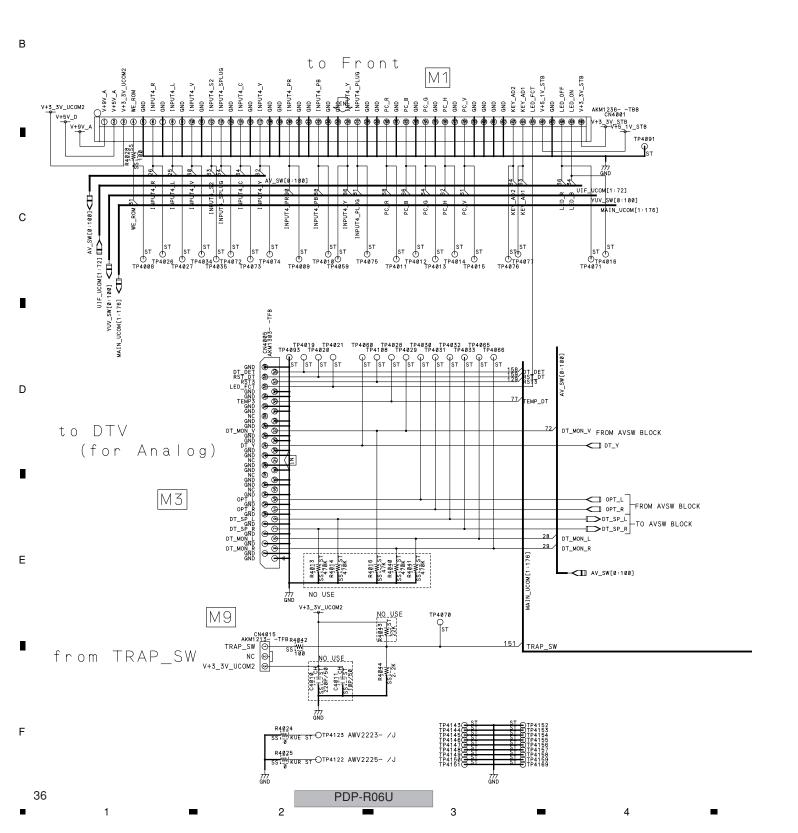
# 3.16 MR MAIN ASSY (1/16)

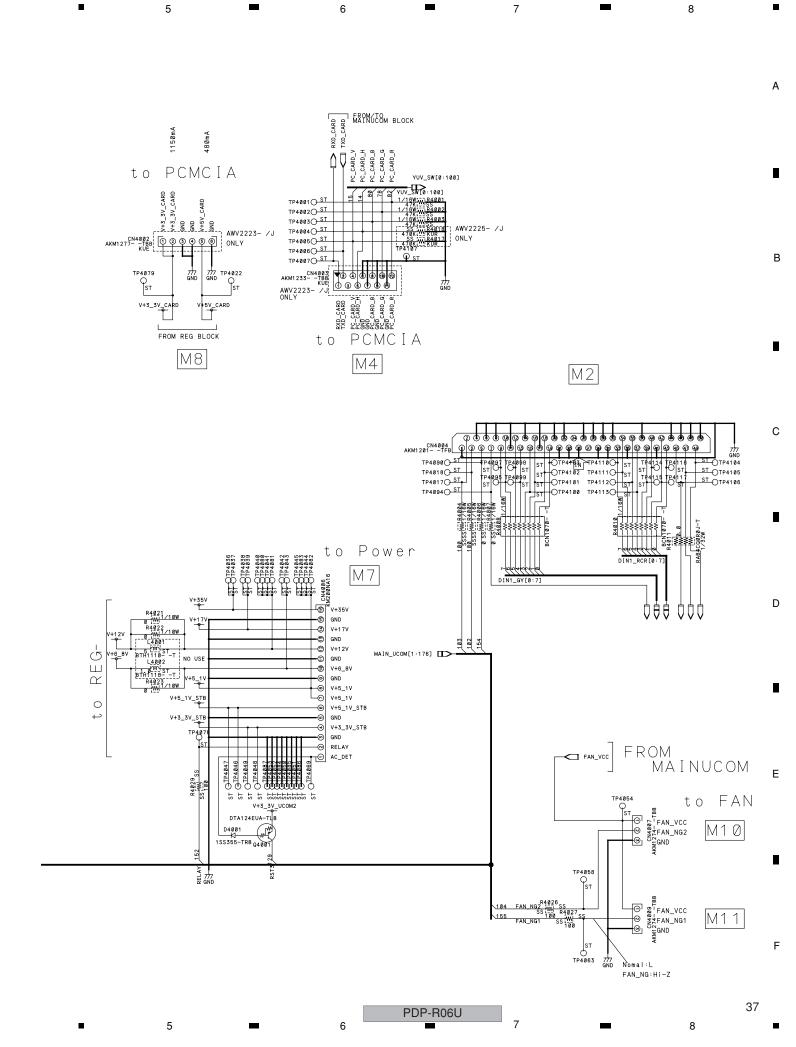
### MR MAIN ASSY (1/16)

• BOARD IF BLOCK

NO USE : STANDBY

ITEM	USED	AWV2223- /J VACANT	AWV2225- /J VACANT
С	4010-4011		
CN	4001-4015	4008, 4010-4014,	4002-4003, 4008, 4010-4014,
D	4001-4001		
L	4001-4002		
Q	4001-4001		
R	4001-4044	4009, 4012, 4015, 4017-4020, 4025, 4030-4039,	4009, 4012, 4015, 4019-4020, 4024, 4030-4039,



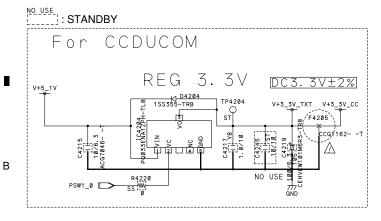


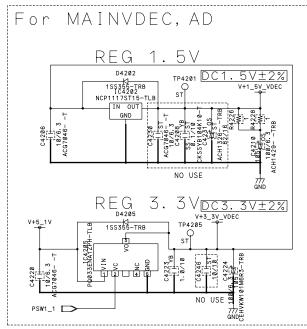
# 3.17 MR MAIN ASSY (2/16)

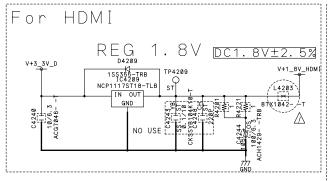
#### MR MAIN ASSY (2/16)

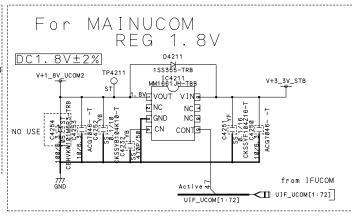
#### REG BLOCK

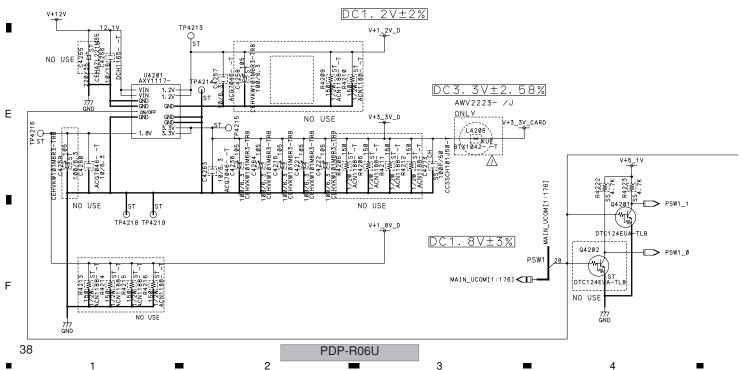
С



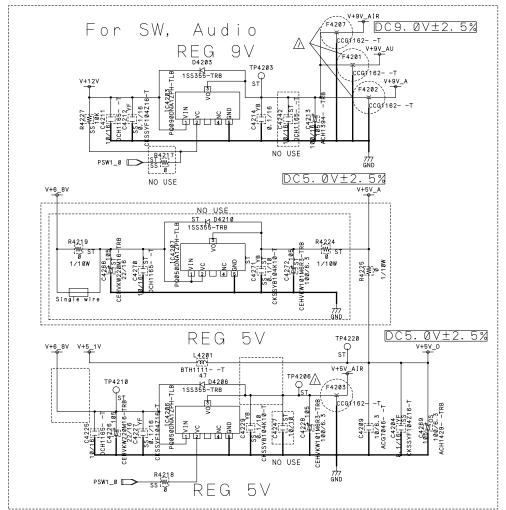


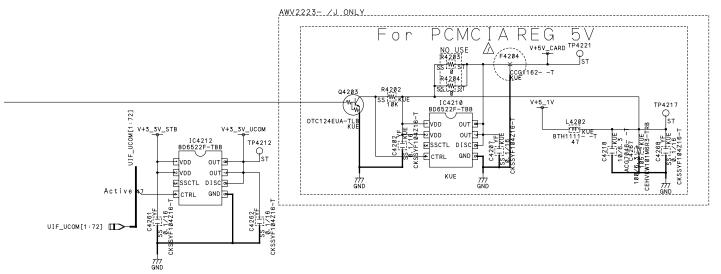






	,		
ITEM	USED	AWV2223- /J VACANT	AWV2225- /J VACANT
С	4202-4273	4203, 4205, 4233-4237, 4239, 4241, 4249, 4265,	4202, 4203, 4205, 4207, 4218, 4233-4237, 4239, 4241, 4249, 4265, 4267-4268,
D	4202-4211	4207-4208,	4207-4208,
F	4201-4207	4206,	4204, 4206,
IC	4202-4212	4208,	4208,
L	4201-4206	4204-4205,	4202, 4204-4206,
Q	4201-4203		4203,
R	4201-4228	4207-4208,	4202, 4207-4208
U	4201-4201		





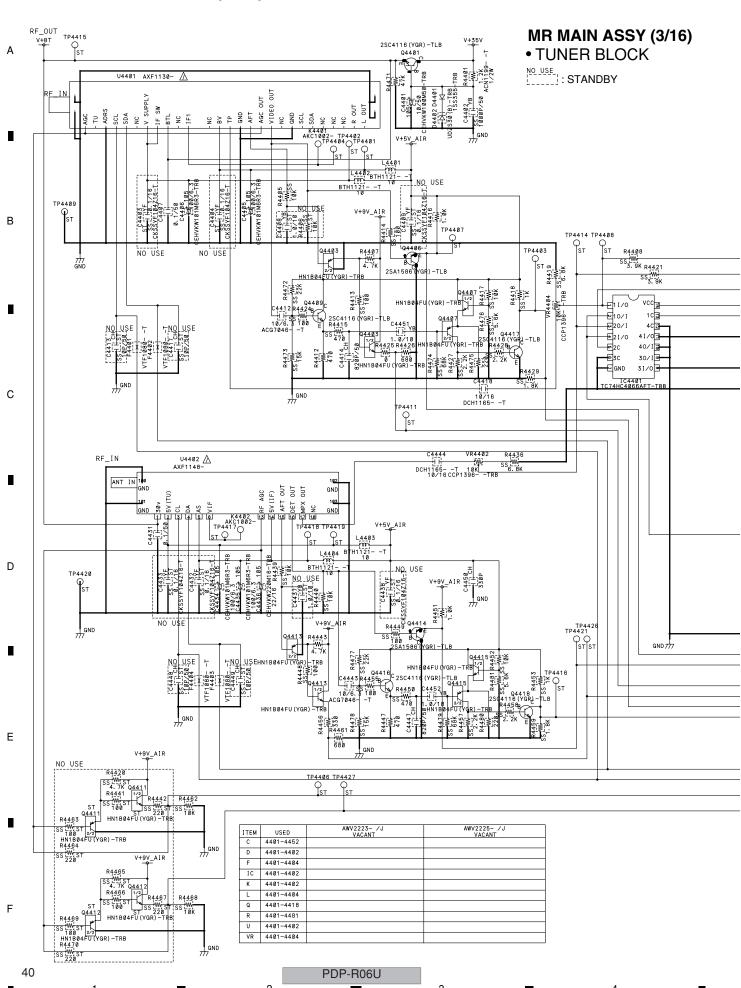
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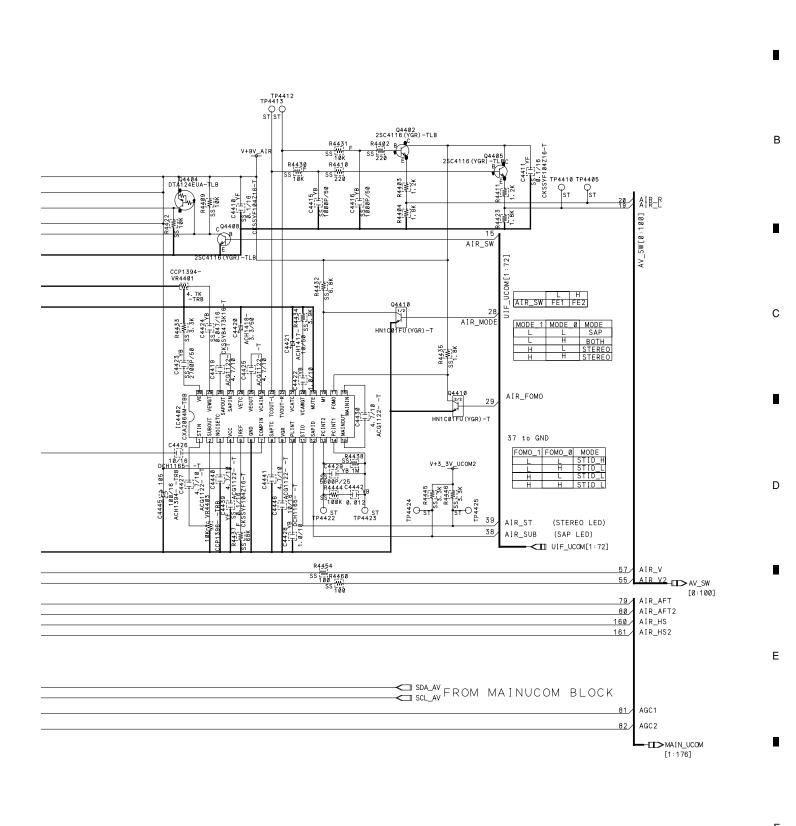
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PDP-R06U

# 3.19 MR MAIN ASSY (4/16)

### MR MAIN ASSY (4/16)

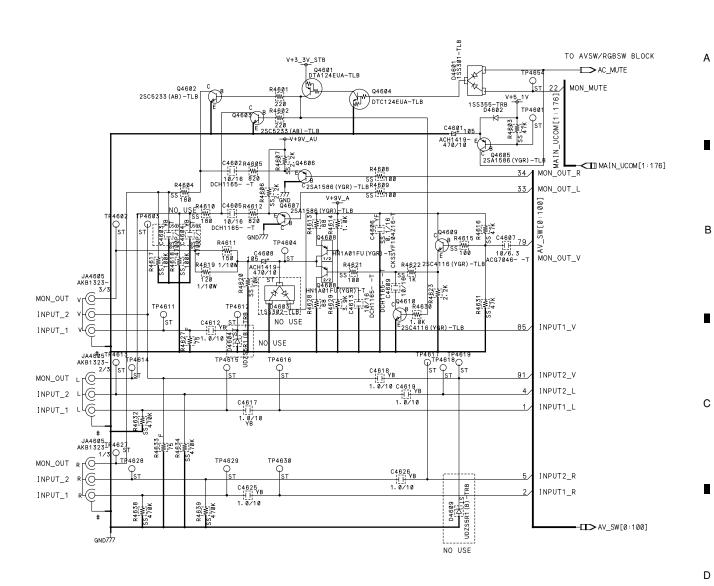
AV IO BLOCK

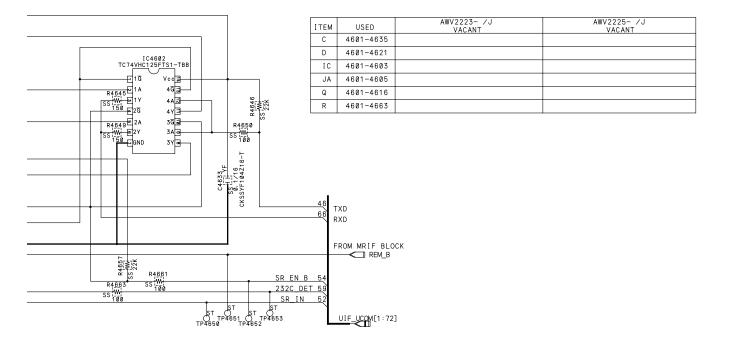
NO\_USE : STANDBY

В AWV2223- /J AWV2225-AKP1235-JA4601 AKP1234-JA4605 AKB1323-AKB1319-TP4605 TP4606 TP4607 TP4608 TP4609 TP4610 INPUT2 Y 93 95 INPUT2\_C 4624 W INPUT2\_S2 TOK SS QUDZS5R1 (B) -TRB JA4601 AKP1235-NO USE 98 INPUT2\_SPLUG INPUT\_2 TP4620 TP4621 ST C4620 YB O ST INPUT1\_Y 87 1. 0/10 C4623 R4637 SS 1 1 YB R5 WW 0. 01/16 INPUT1\_C 89 INPUT\_1 88 INPUT1\_S2 INPUT1\_SPLUG TO AV SW BLOCK -DD>AV\_SW[0:100] 7 GND TP4633 TP4632 TP4634 O O ST ST ST TP4631 R4640 SS 100 SS 100 R4642 TXD V+3\_3V\_STB NO USE
| D4613 | D4613 | D4613 | D4614 | D4614 | D4614 | D4614 | D4614 | D4615 | D6615 RS232C TP4637 C4627 VF SS 11 16 C1+
SS 11 16 CKSSYF104216-T EV+
CKSSYF104216-T C46330 C1CKSSYF104216-T C46330 C1CKSSYF104216-T C46330 C1-4t O ST 99999 Q ST CKSSYF104Z16 CKSSYF104Z16 C4632 C4632 CHVKW100M16-105 • • • • TP4638 оо∪тБ C4631 \_\_\_sт RIN1□ CN4602 AKP1213 ROUT1□ DIN13 SS 1 1 YF 0, 1/16 CKSSYF104Z16-T D4616 D4617
| D351 | D3515 | D7515 | D DOUT2 DIN2 RIN2 ROUT2 TP4640 TP4642 TP4643 TP4643 ST OST JA4603 AKN1073-TXD SR4 IST IC4603 TC74VHC00FTS1-TBB SR\_OUT \\ TP4645 RXD\_SR49sT (₩<u>₩</u>) TP4648 TP4649 OTC124EUA-TLB SR\_IN D4621 1SS355-TRB TP4655 TP4656 TP4657 ST ST ST 3. 3V SR GND PDP-R06U 42

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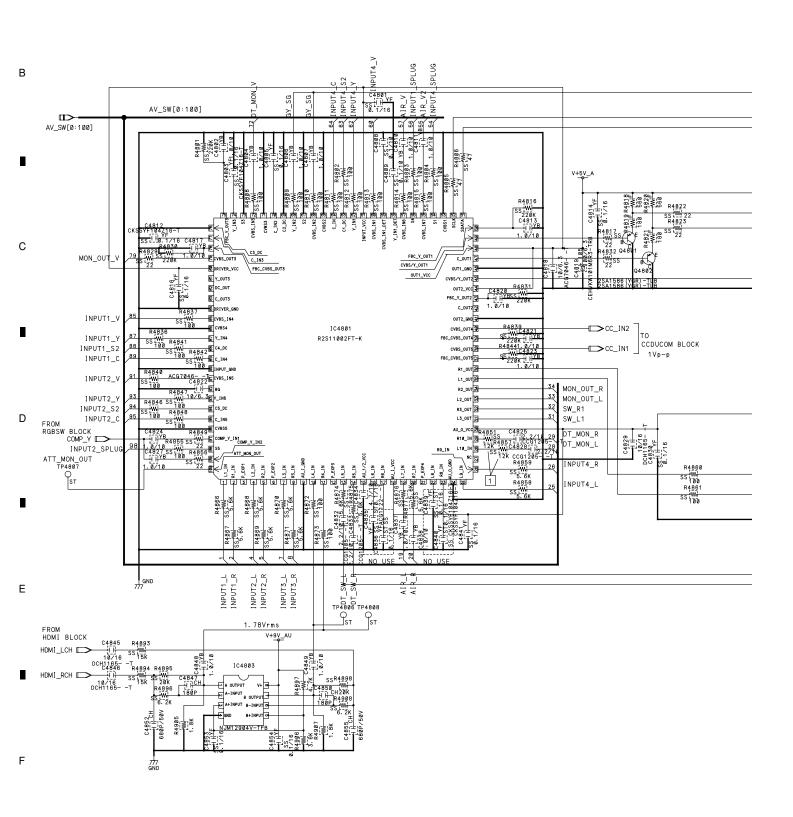
PDP-R06U

# 3.20 MR MAIN ASSY (5/16)

### MR MAIN ASSY (5/16)

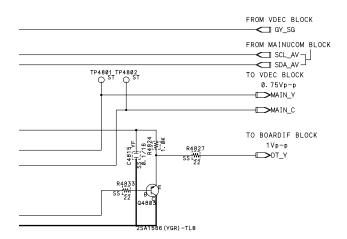
AV SW BLOCK

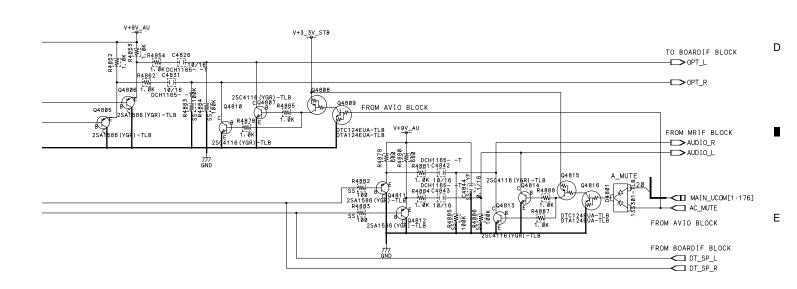
NO\_USE : STANDBY



PDP-R06U

ITEM	USED	AWV2223- /J VACANT	AWV2225- /J VACANT
С	4801-4855	4851,	4851,
D	4801-4801		
I C	4801-4803	4802,	4802,
Q	4801-4816	4804,	4804,
R	4801-4908	4807, 4825-4826, 4828, 4834-4835, 4838, 4843, 4845, 4850, 4889-4892, 4899-4904,	4807, 4825-4826, 4828, 4834-4835, 4838, 4843, 4845, 4850, 4889-4892, 4899-4904,





45

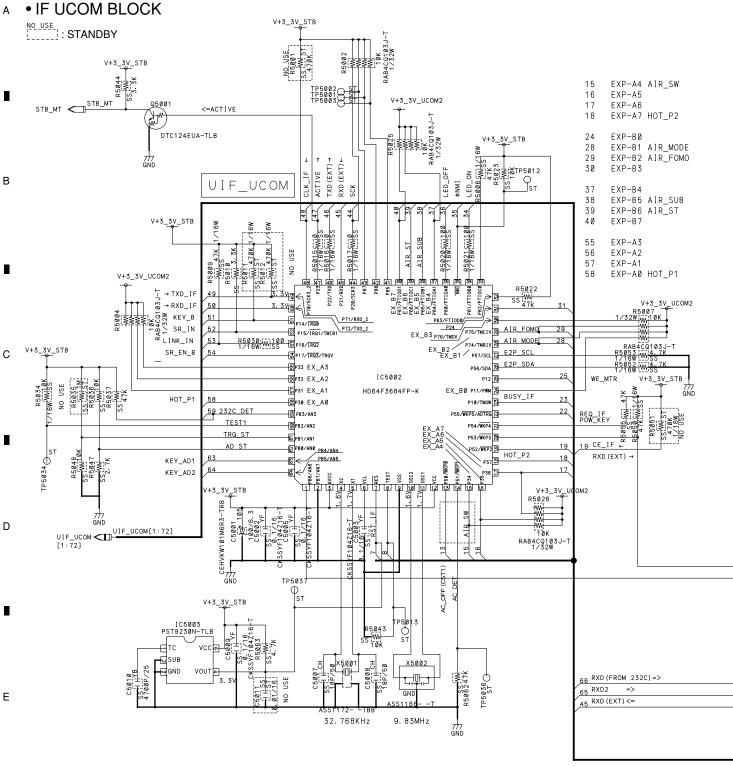
8

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PDP-R06U

# MR MAIN ASSY (6/16)

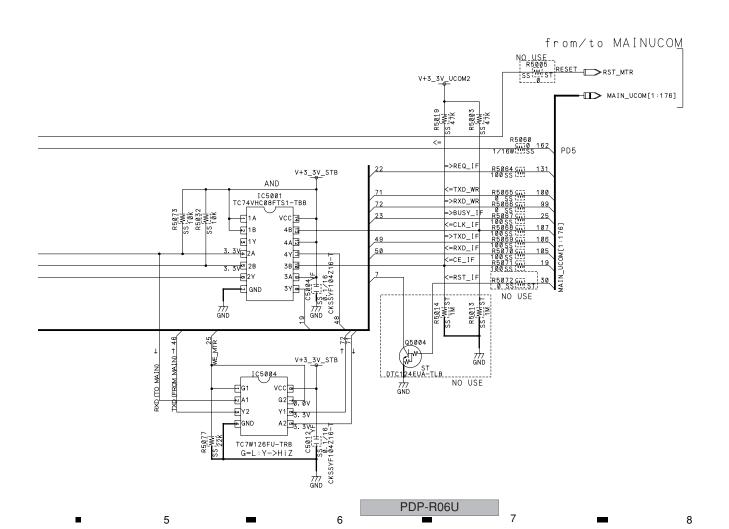


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ITEM	USED	AWV2223- ∕J VACANT	AWV2225- ∕J VACANT
С	5001-5012	5006,	5006,
IC	5001-5004		
Q	5001-5004	5002-5003,	5002-5003,
R	5001-5077	5008, 5018, 5024, 5027-5029, 5031, 5033, 5038-5042, 5045, 5048-5049, 5054, 5056-5059, 5061, 5074-5076,	5008,5018,5024,5027-5029,5031,5033, 5038-5042,5045,5048-5049,5054, 5056-5059,5061,5074-5076,
X	5001-5002		

5



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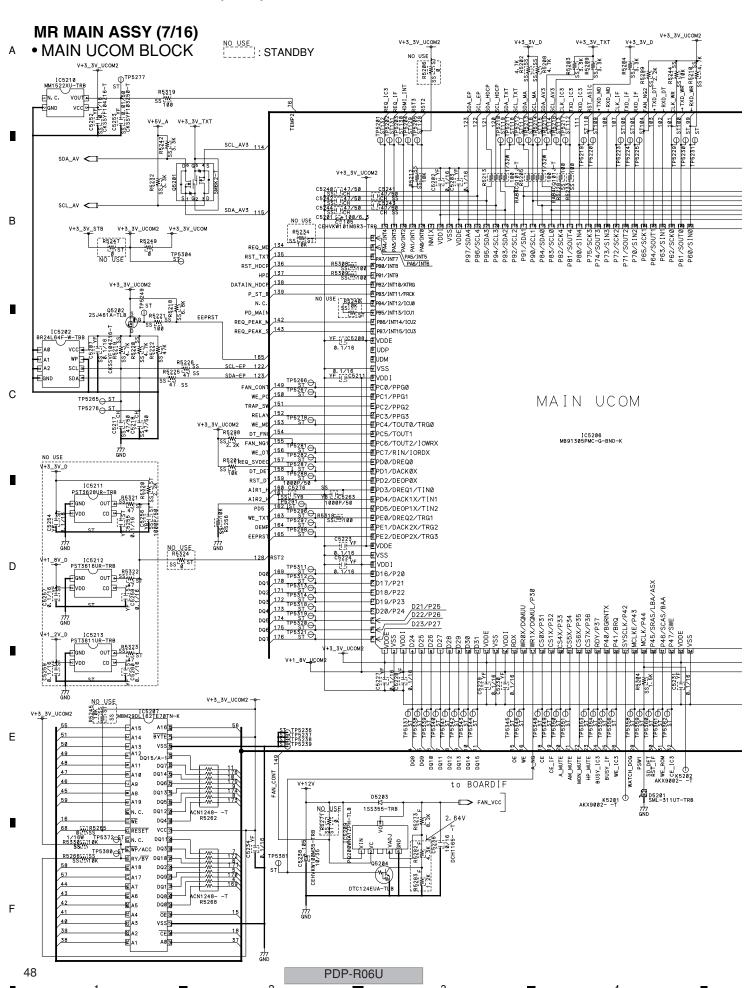
8

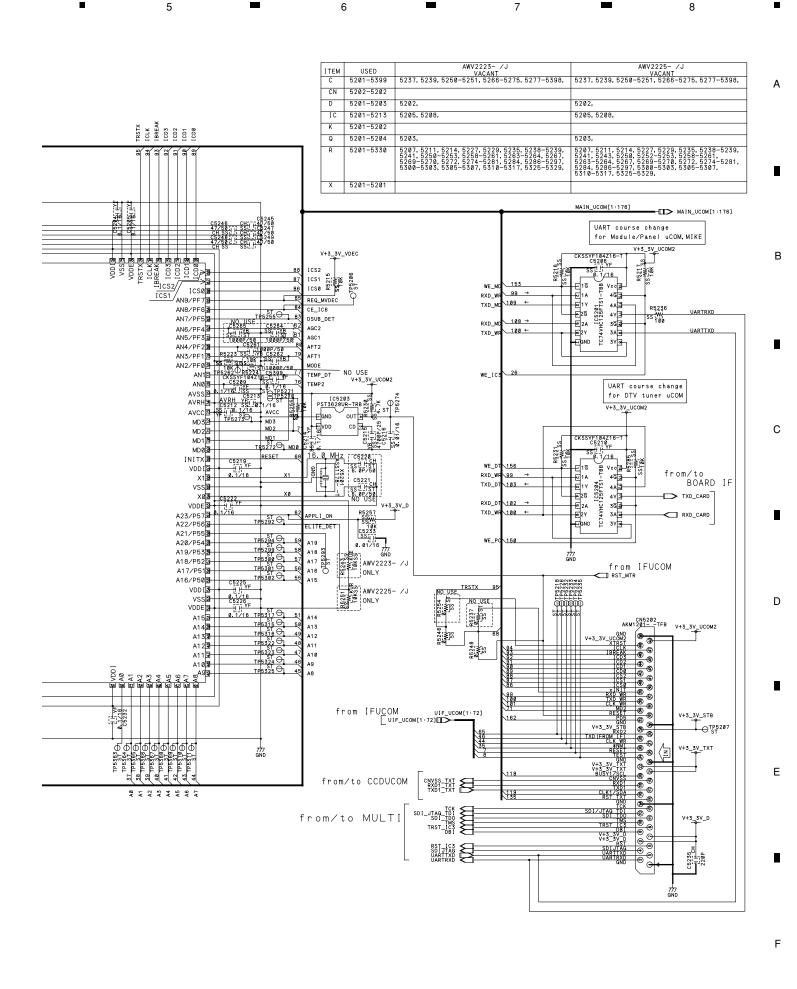
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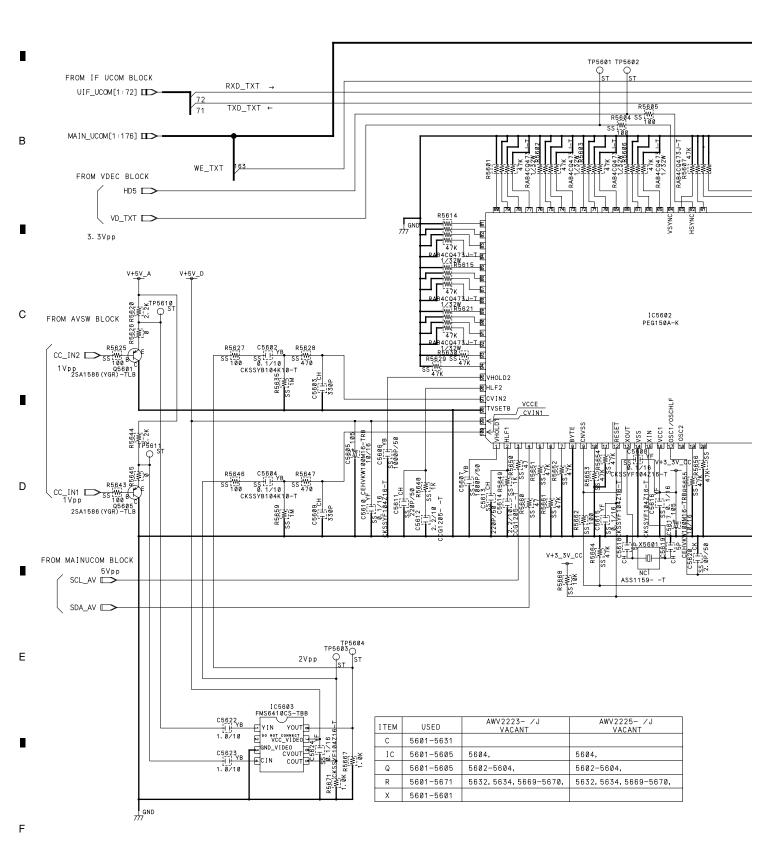
PDP-R06U

#### 3.23 MR MAIN ASSY (8/16)

#### MR MAIN ASSY (8/16)

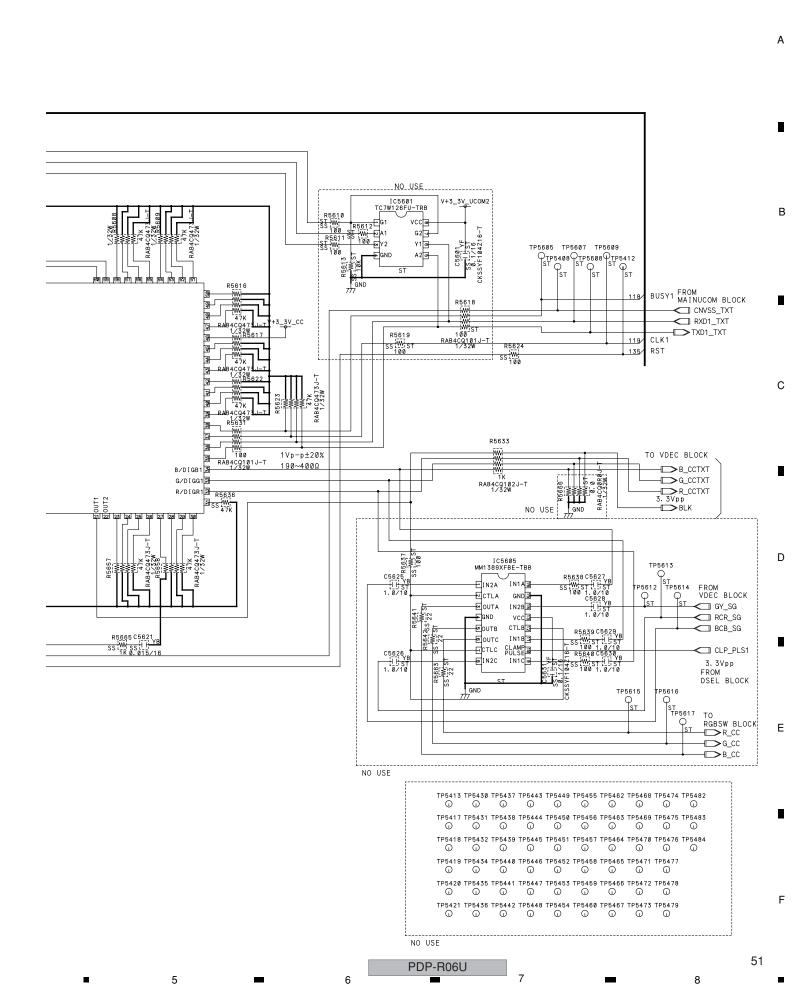
• CCD UCOM BLOCK

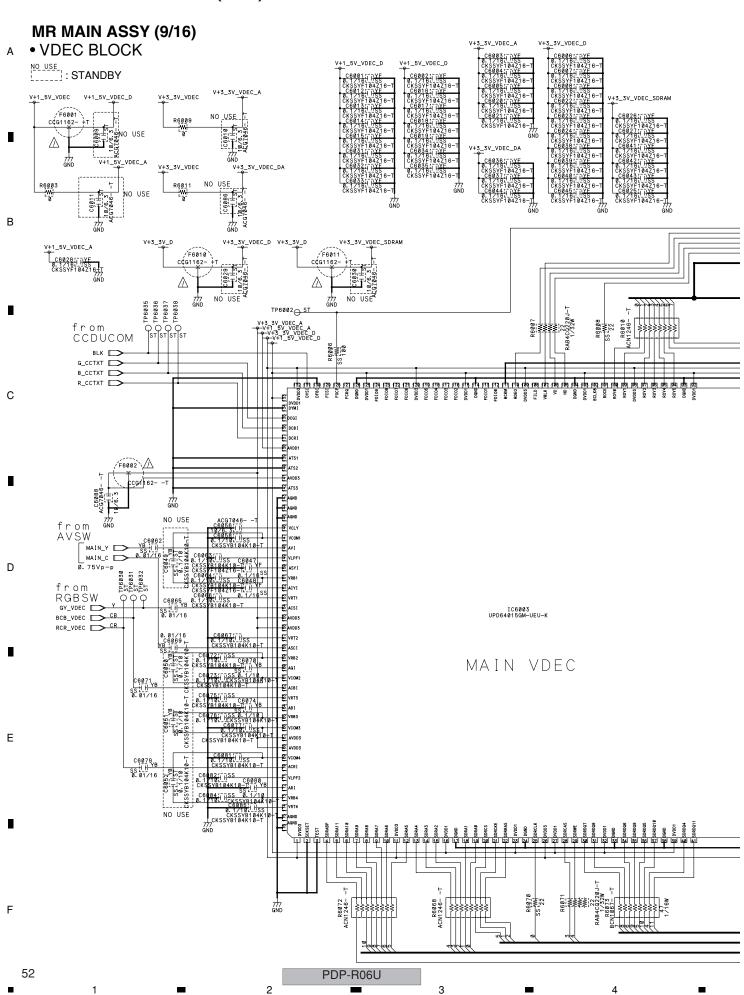
NO\_USE : STANDBY

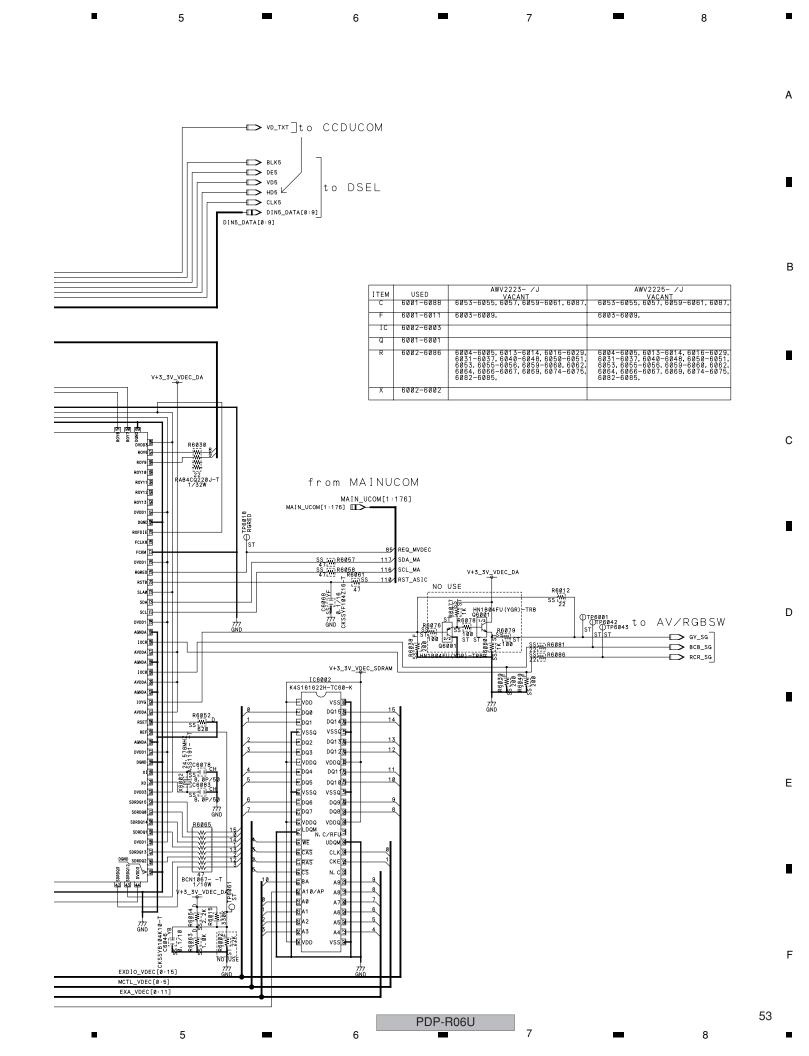


50

PDP-R06U



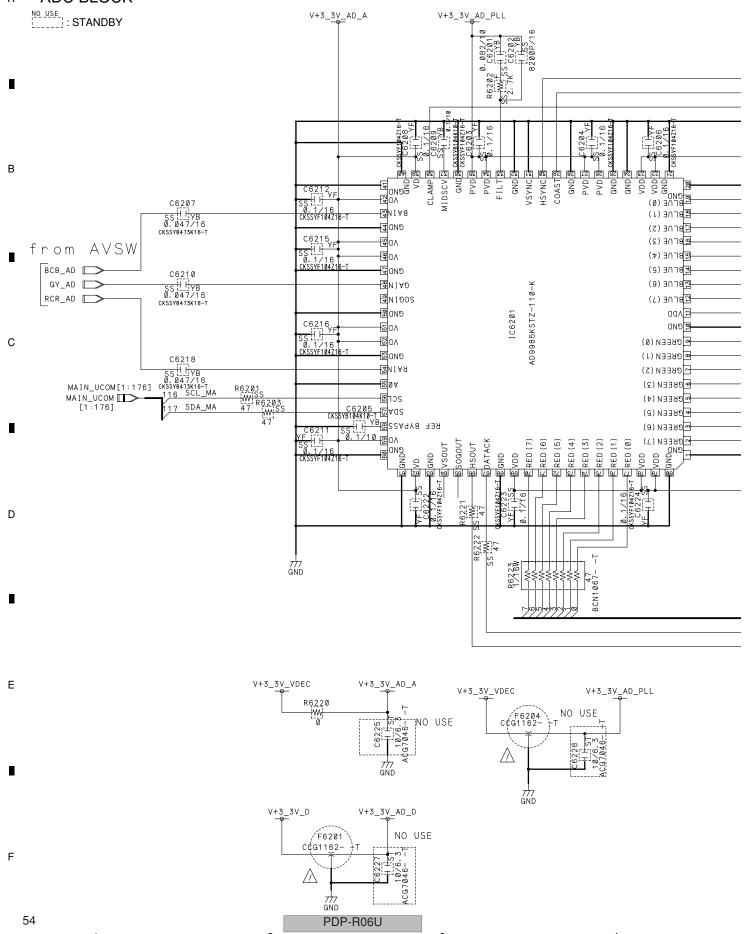


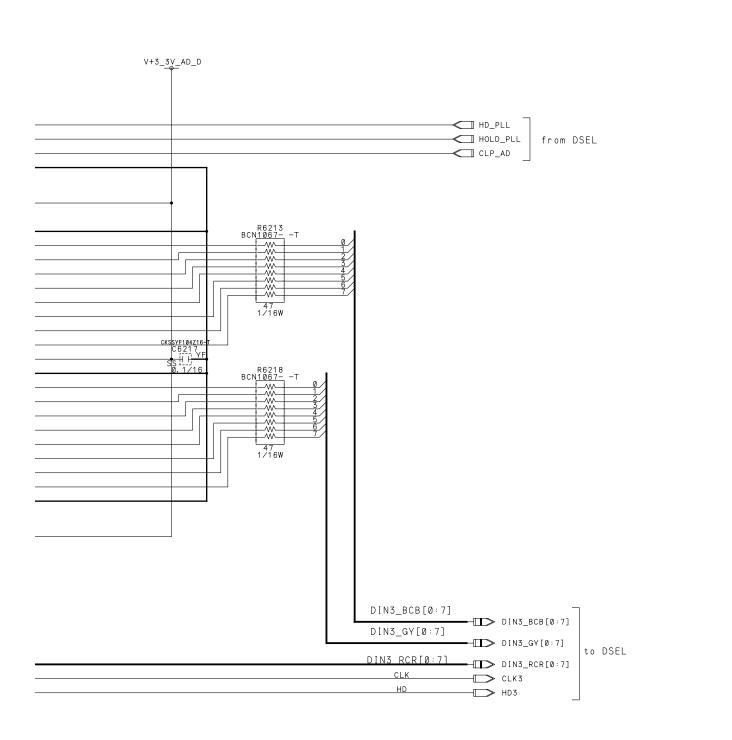


#### 3.25 MR MAIN ASSY (10/16)

#### **MR MAIN ASSY (10/16)**

ADC BLOCK





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ITEM	USED	AWV2223- /J VACANT	AWV2225- /J VACANT
С	6201-6228	6213-6214, 6219-6221, 6226,	6213-6214, 6219-6221, 6226,
F	6201-6204	6202-6203,	6202-6203,
IC	6201-6201		
R	6201-6223	6204-6212, 6214-6217, 6219,	6204-6212, 6214-6217, 6219,

55

F

В

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PDP-R06U

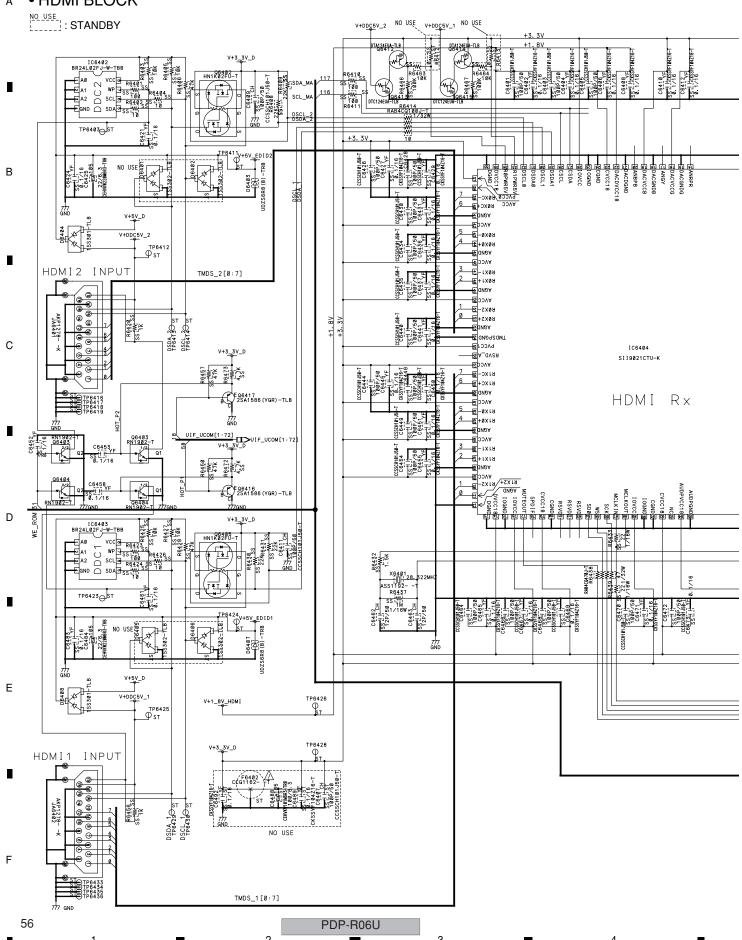
-

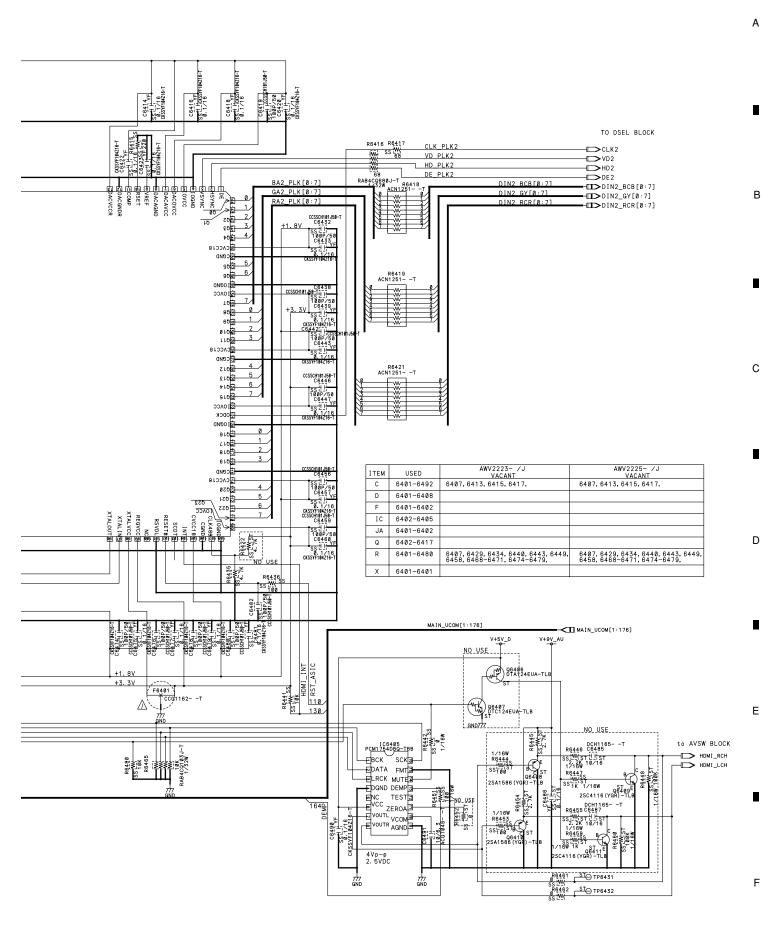
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#### 3.26 MR MAIN ASSY (11/16)

#### **MR MAIN ASSY (11/16)**

HDMI BLOCK



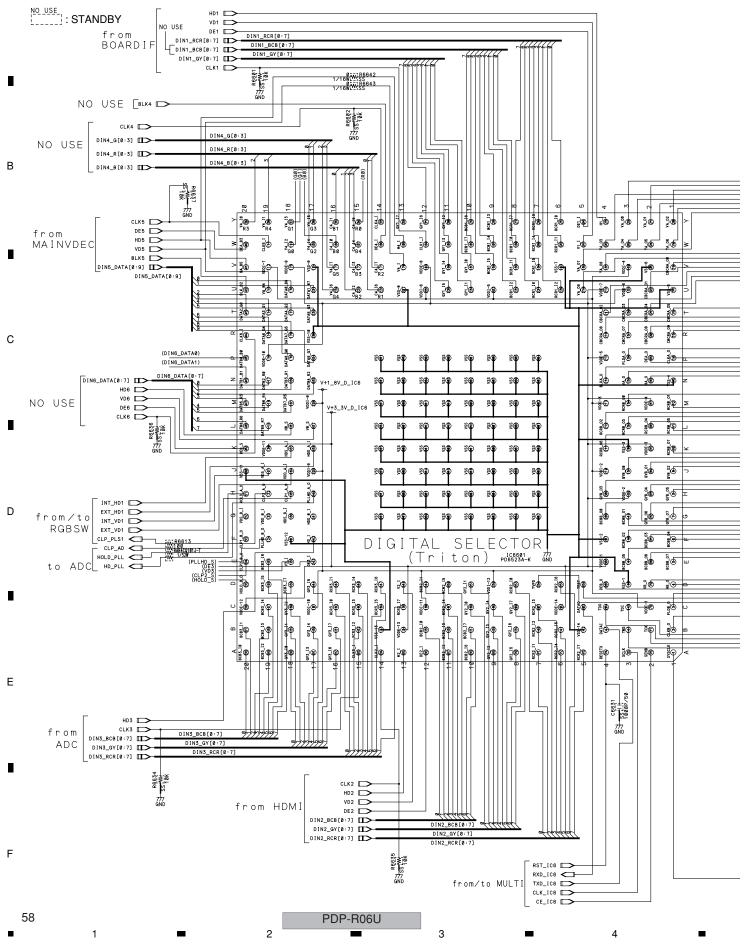


PDP-R06U

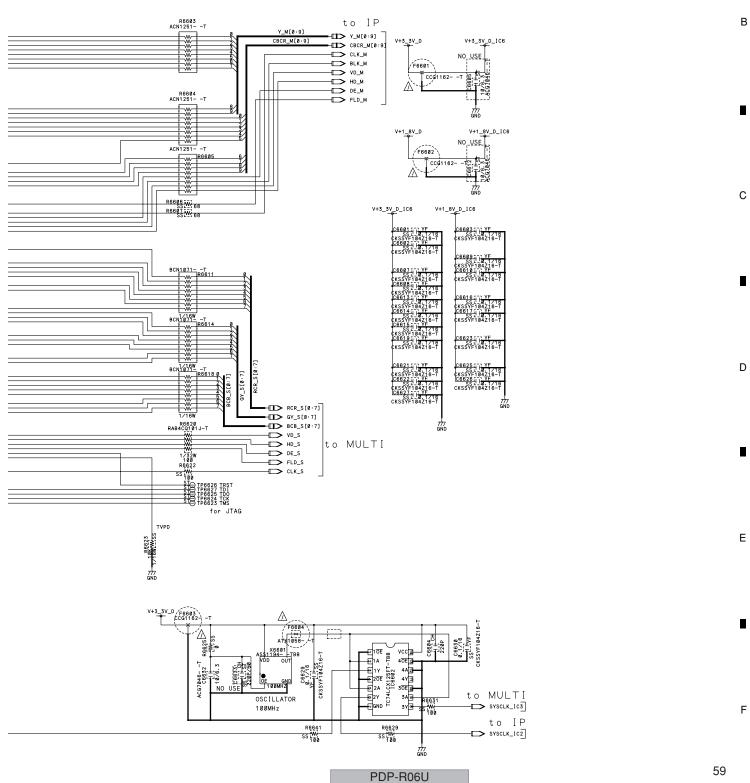
#### 3.27 MR MAIN ASSY (12/16)

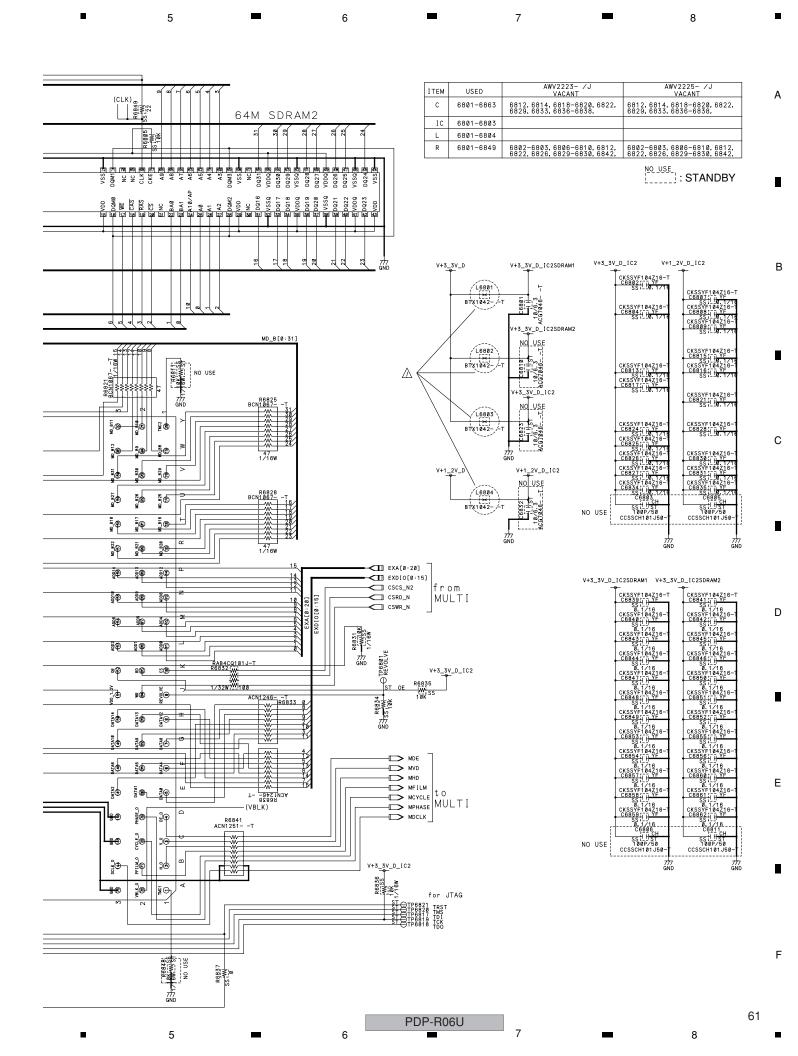
#### **MR MAIN ASSY (12/16)**

DSEL BLOCK



ITEM	USED	AWV2223- /J VACANT	AWV2225- /J VACANT
С	6601-6633	6606, 6611, 6618, 6620, 6624, 6628,	6606, 6611, 6618, 6620, 6624, 6628,
F	6601-6603		
IC	6601-6602		
R	6601-6643	6608-6610, 6612, 6615-6617, 6619, 6621, 6624, 6626-6627, 6630, 6632-6633, 6638-6640,	6608-6610, 6612, 6615-6617, 6619, 6621, 6624, 6626-6627, 6630, 6632-6633, 6638-6640,
X	6601-6601		

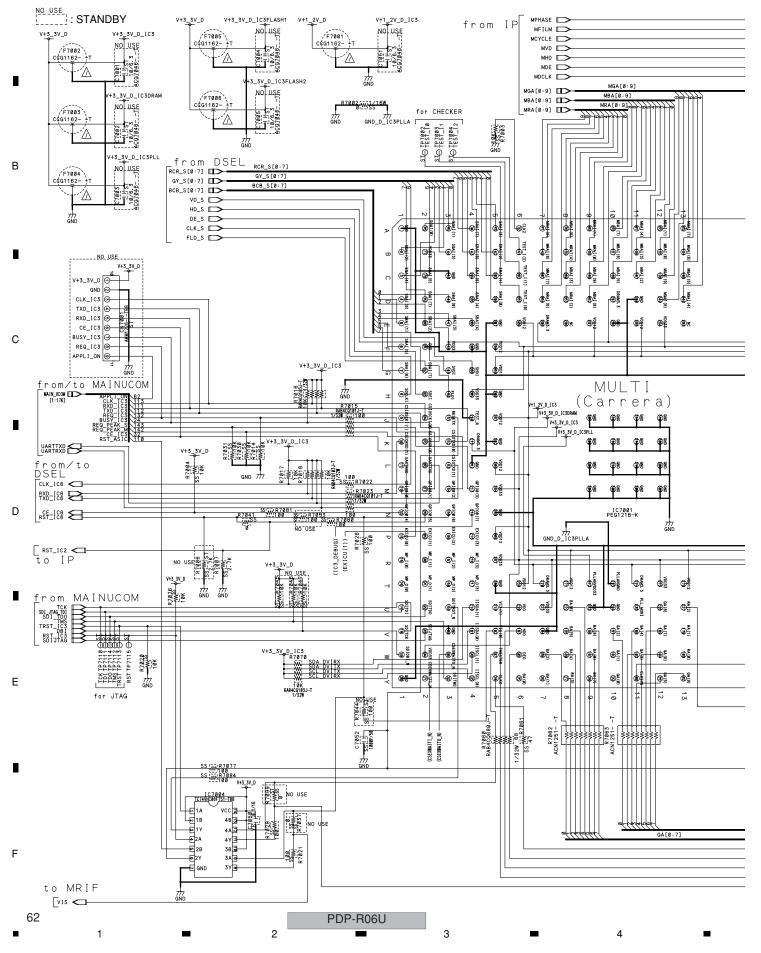


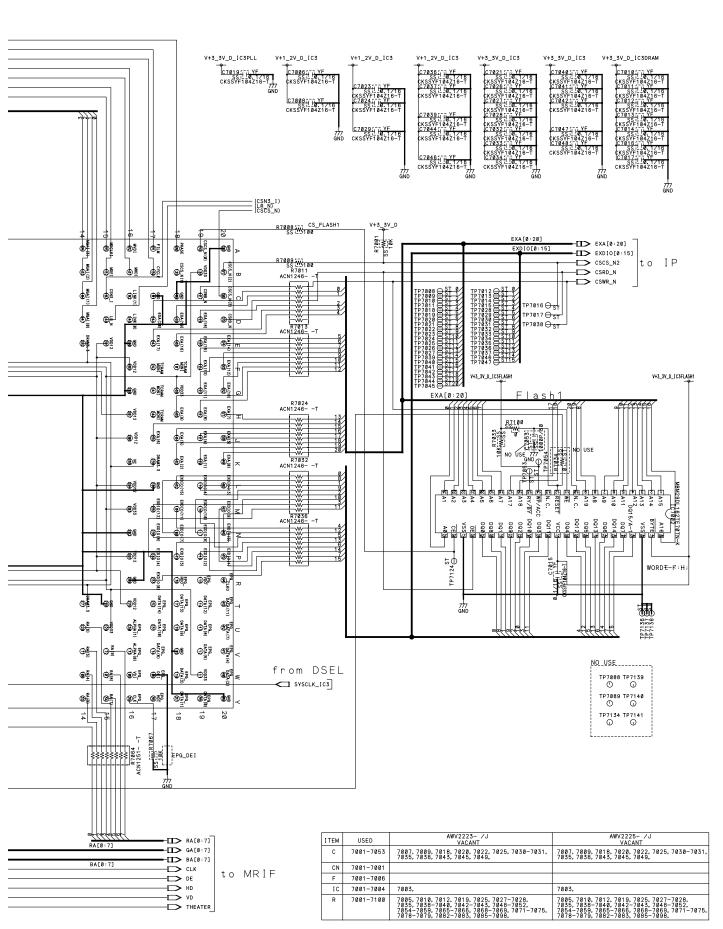


#### 3.29 MR MAIN ASSY (14/16)

#### **MR MAIN ASSY (14/16)**

MULTI BLOCK





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#### 3.30 MR MAIN ASSY (15/16)

#### **MR MAIN ASSY (15/16)**

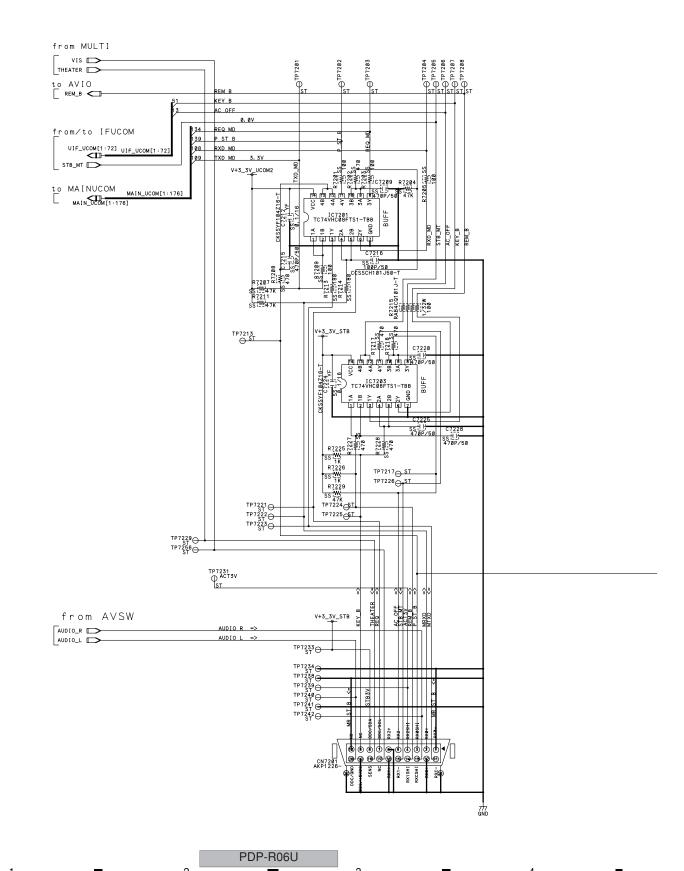
• MR IF BLOCK

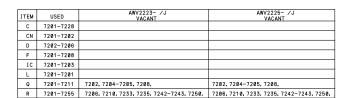
NO USE : STANDBY

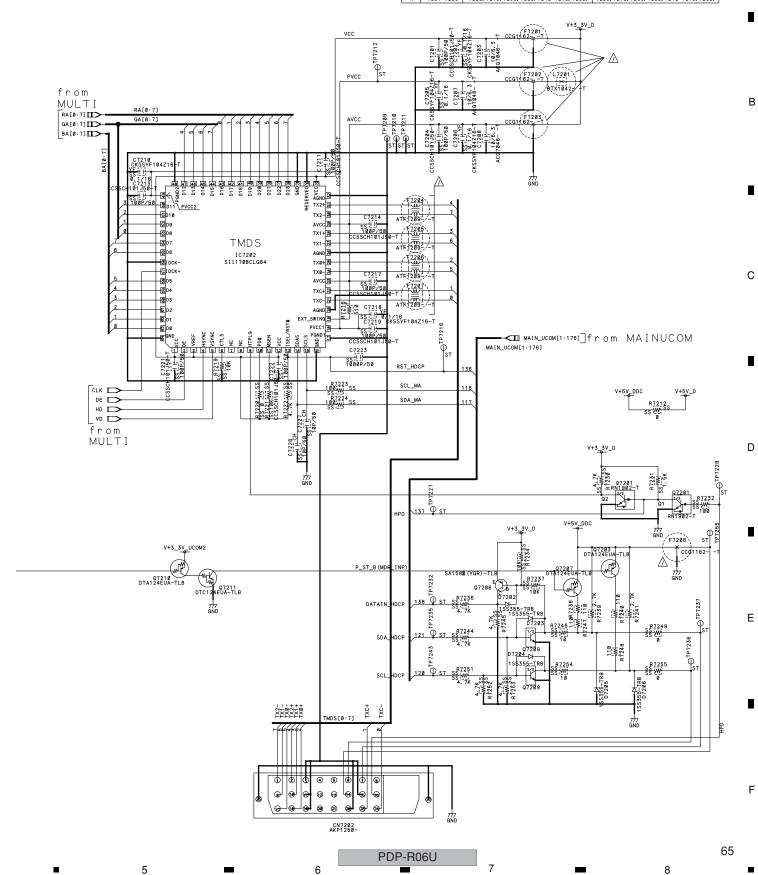
В

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64



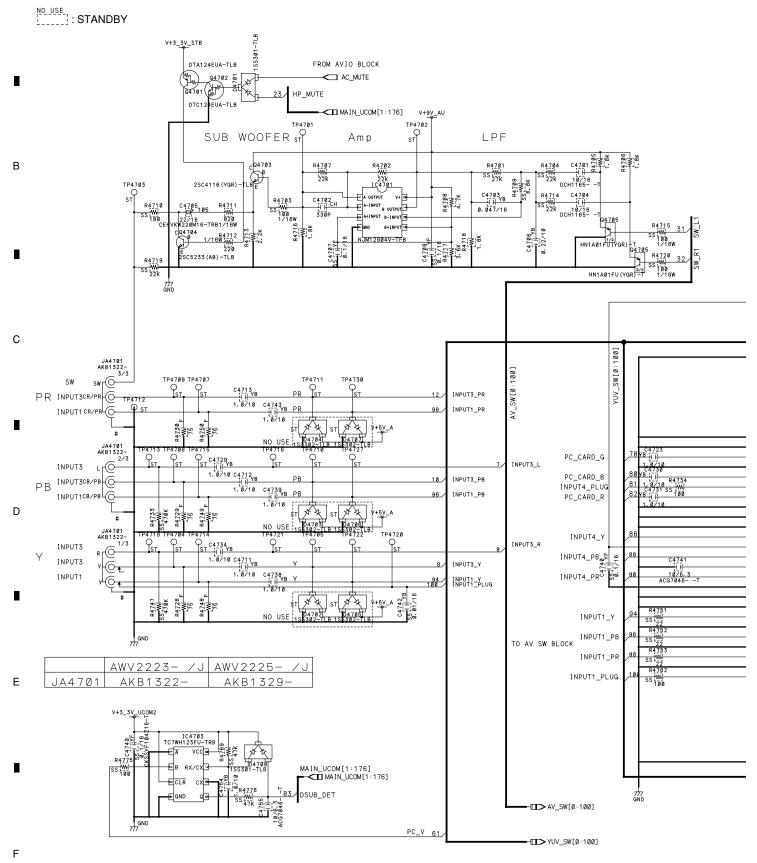




#### 3.31 MR MAIN ASSY (16/16)

#### **MR MAIN ASSY (16/16)**

#### RGB SW BLOCK



66

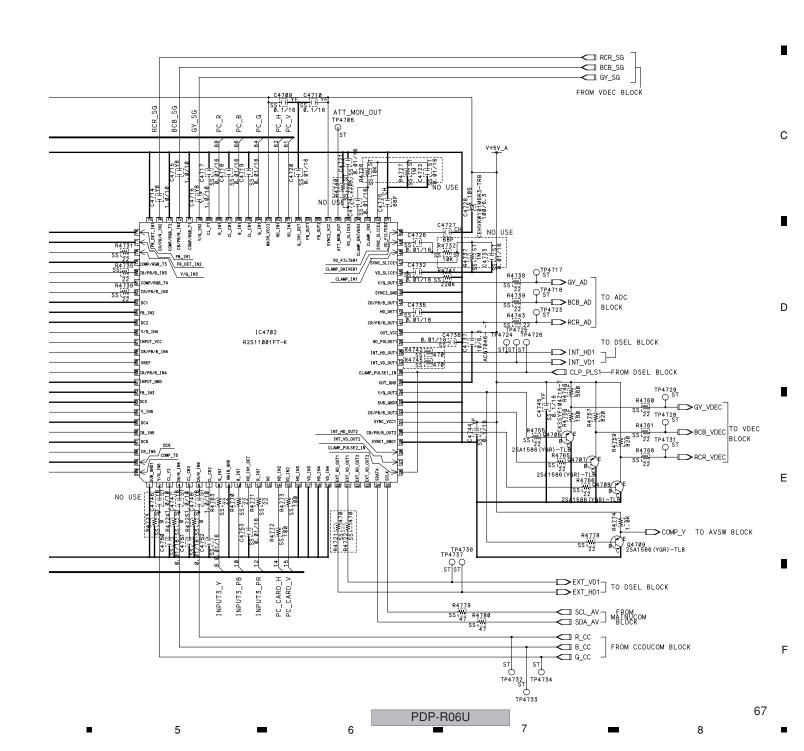
PDP-R06U

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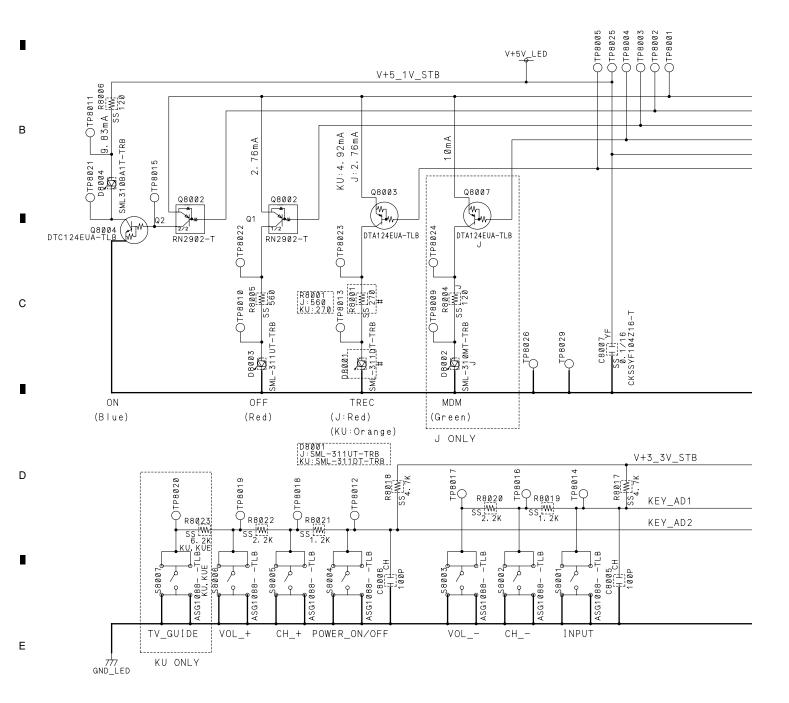
3

ITEM	USED	AWV2223- /J VACANT	AWV2225- /J VACANT
С	4701-4755		
D	4701-4708		
IC	4701-4703		
JA	4701-4701		
Q	4701-4709		
R	4701-4780	4744, 4754, 4758, 4764, 4767, 4777,	4744, 4754, 4758, 4764, 4767, 4777,

В



A LED AS



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KEY\_AD1 voltage

Pushed KEY	Тур.	Thr.	
NO USE	3. 30		
		2. 51	
VOL	1. 39	1.70	
CH -	0.67	0.99	
INPUT	ρ	0.38	
1111 01	Ü		[V]

KEY\_AD2 voltage

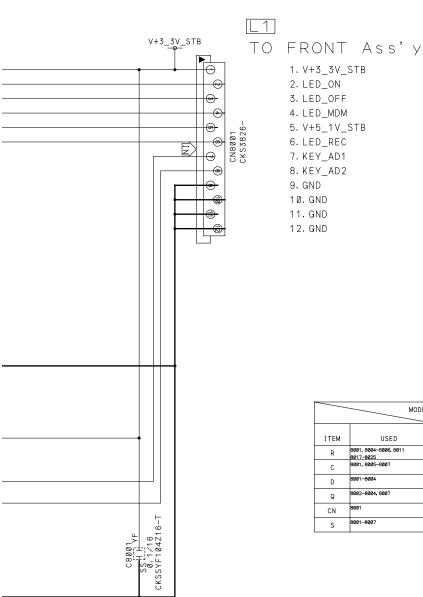
Pushed KEY	Тур.	Thr.	
NO USE	3. 30		
TV_GUIDE	2. 21	2. 51	
VOL_+	1.39	1.70	
CH_+	0.67	0.99	
POWER_ON/OFF	0	0.38	[V]

68

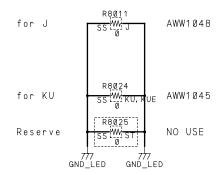
PDP-R06U

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	MODE	L PRO-RØ6U/KUCXJ PDP-RØ6U/KUCXJ	
ITEM	USED	AWV2224- (KUE) AWV2226- (KU) VACANT	AWV2228- (J) VACANT
R	8001, 8004-8006, 8011 8017-8025	8004, 8011, 8025	8023, 8024, 8025
С	8001, 8005-8007		
D	8001-8004	8002	
Q	8002-8004, 8007	8007	
CN	8001		



69

В

С

D

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F

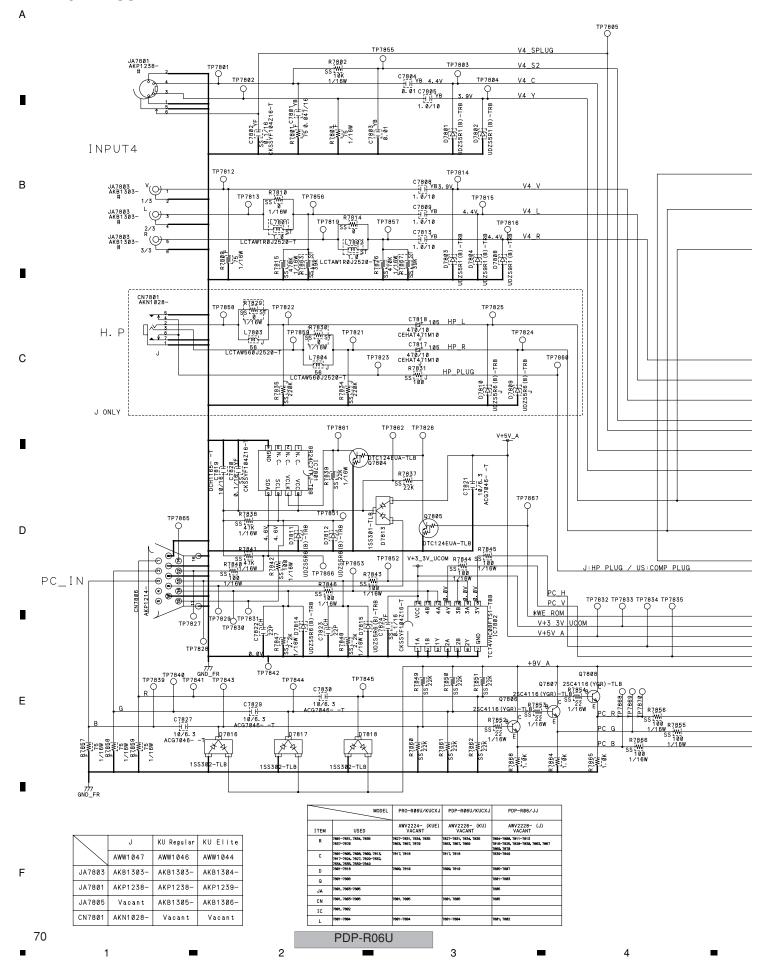
PDP-R06U

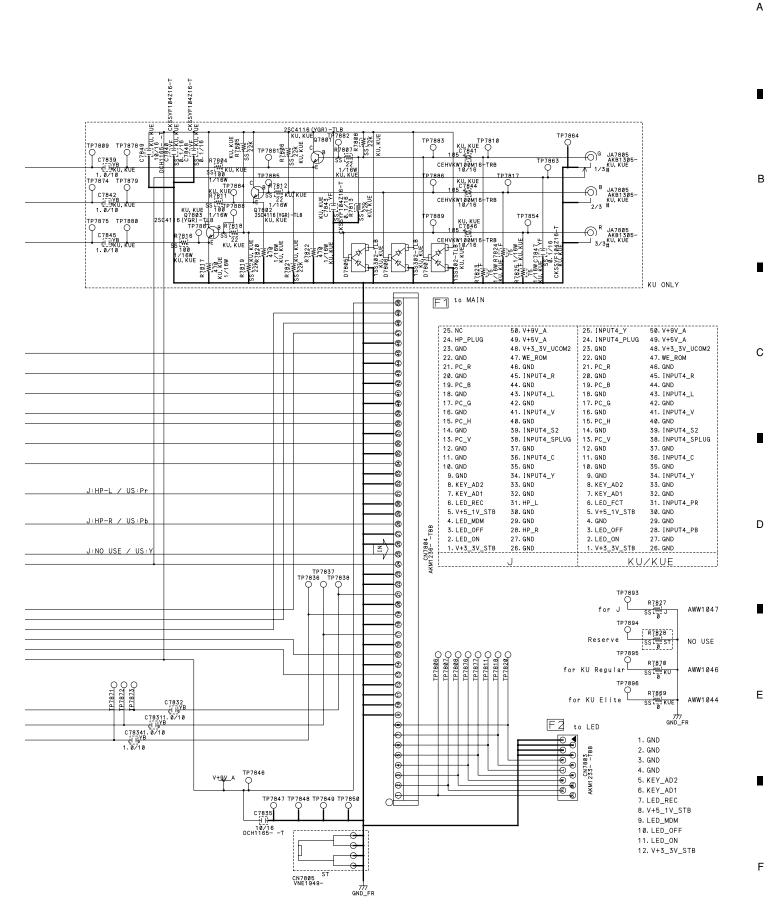
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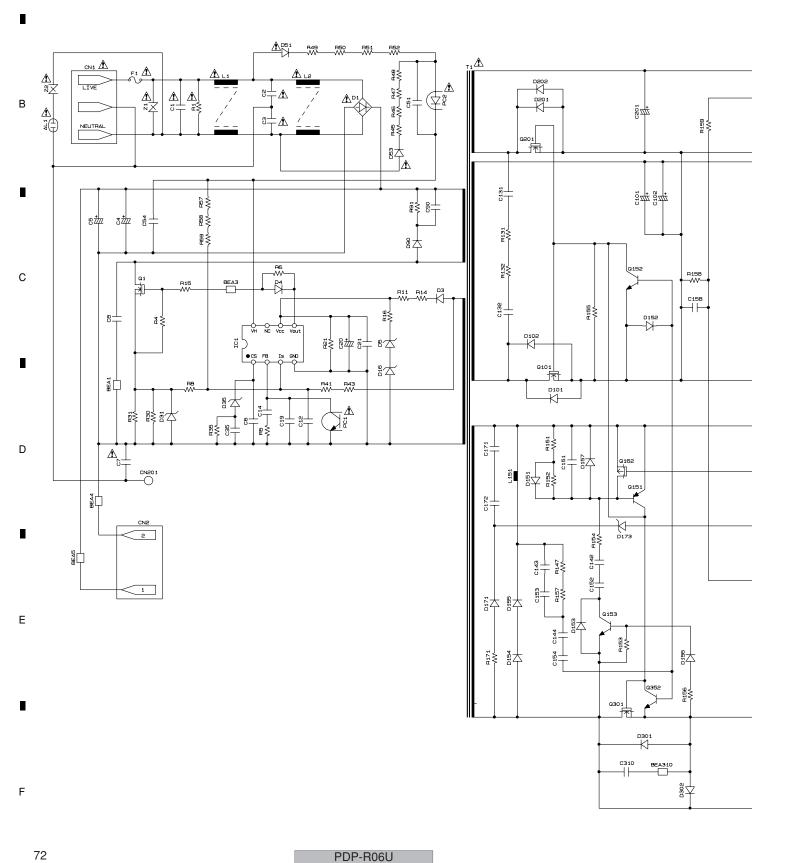
#### 3.33 FRONT ASSY

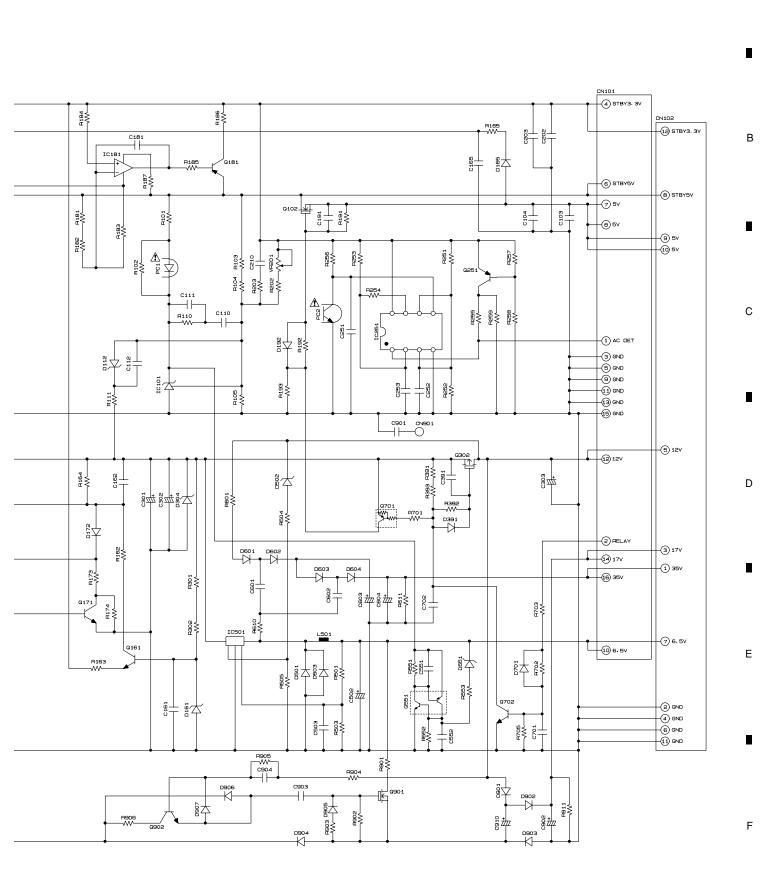
#### **FRONT ASSY**





PDP-R06U



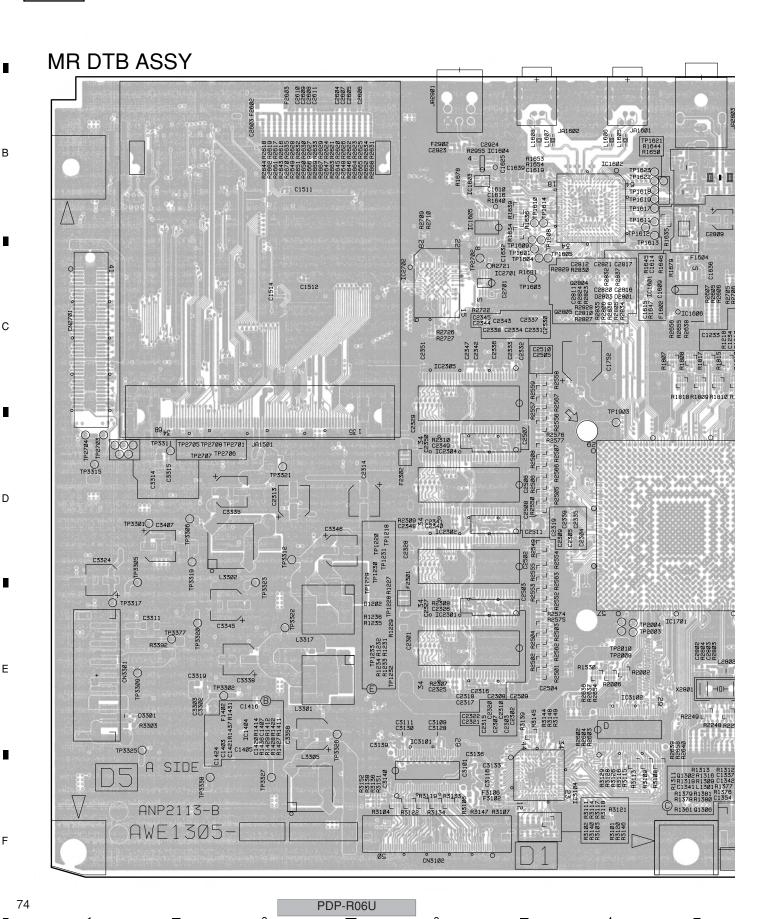


PDP-R06U

Α

## 4. PCB CONNECTION DIAGRAM 4.1 MR DTB ASSY

SIDE A





В

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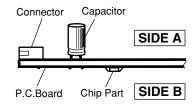
## F1102 U1001 O<sub>IC16Ø6</sub> C1128 R11114 C1Ø39 C1Ø38 TP22Ø3 TP22Ø4 738 CN14B2 O IC17Ø1 o LB R14Ø1 1403 TP2213 C2211 IC14Ø3 OK SCAN FC1 FC2 65

#### **NOTE FOR PCB DIAGRAMS:**

- 1. Part numbers in PCB diagrams match those in the schematic diagrams.
- 2. A comparison between the main parts of PCB and schematic diagrams is shown below.

Symbol In PCB Diagrams	Symbol In Schematic Diagrams	Part Name
<b>© 0 0</b> B C E		Transistor
<b>© 0 0</b> B C E		Transistor with resistor
<b>© 0 0</b> D G S		Field effect transistor
<u>600</u>	*******	Resistor array
000		3-terminal regulator

- 3. The parts mounted on this PCB include all necessary parts for several destinations.
- For further information for respective destinations, be sure to check with the schematic diagram.
- 4. View point of PCB diagrams.



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(ANP2113-B)

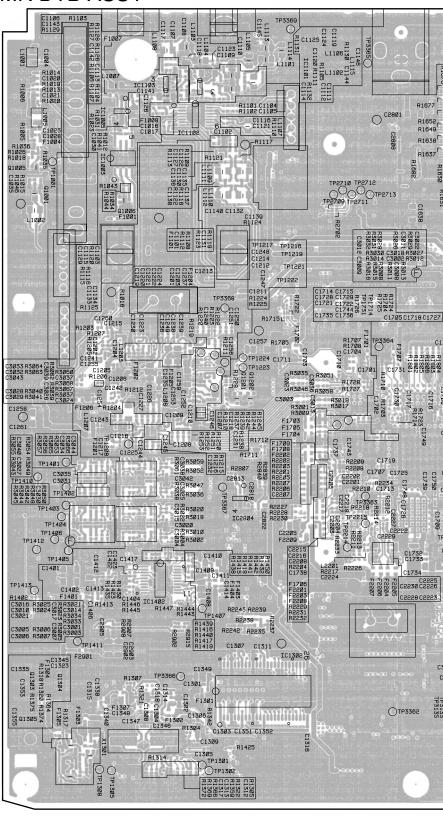
5

R1361 Q1306

SIDE B

В

MR DTB ASSY



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PDP-R06U

SIDE B

#3546 & C5409 F5392 T175356 T17536 T17536 T17536 T17536 T17535 nz561 R2513 

(ANP2113-B)

77

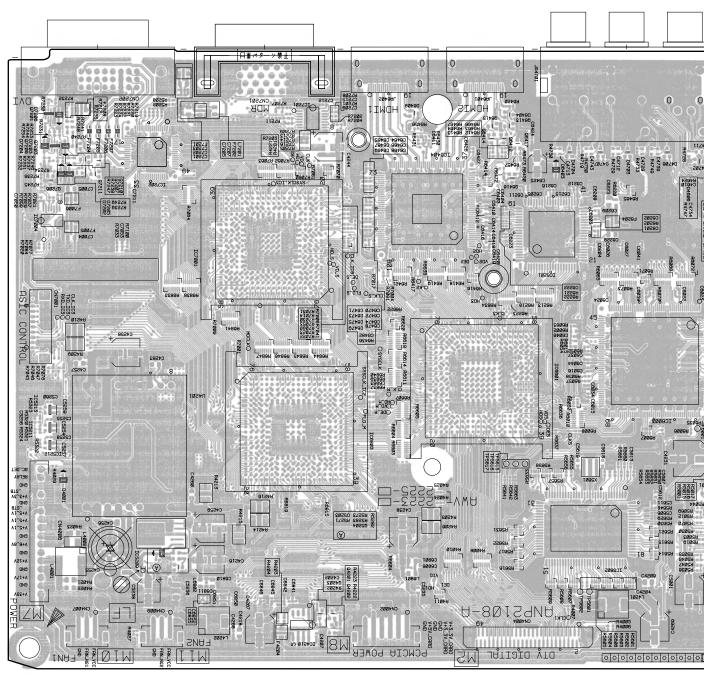
PDP-R06U

#### 4.2 MR MAIN ASSY

SIDE A

В

#### MR MAIN ASSY



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Ε

PDP-R06U

SIDE A

В

000 0 UCOM WRITING (ANP2108-A)

79

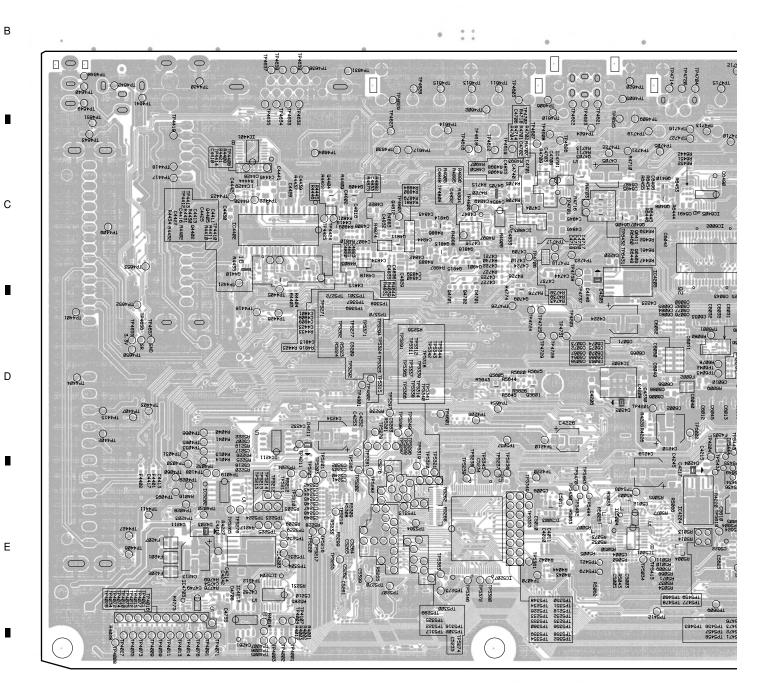
PDP-R06U

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SIDE B

### MR MAIN ASSY



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PDP-R06U

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SIDE B

(ANP2108-A)

81

PDP-R06U 7

-

SIDE A

В

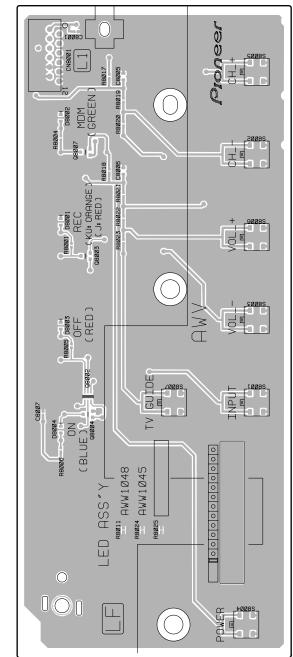
С

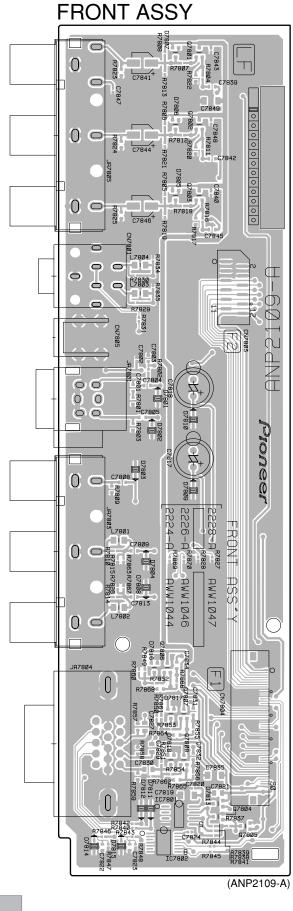
D

Ε

SIDE A







82

F

PDP-R06U

2

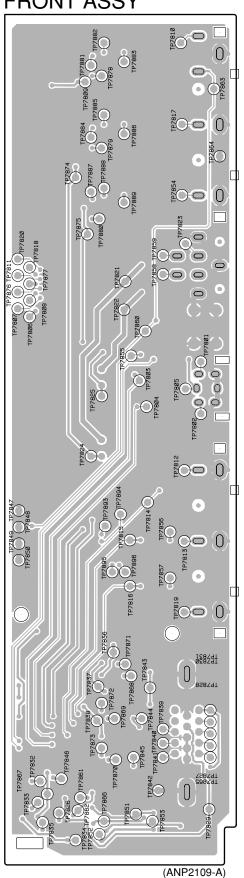
(ANP2109-A)

3

SIDE B SIDE B

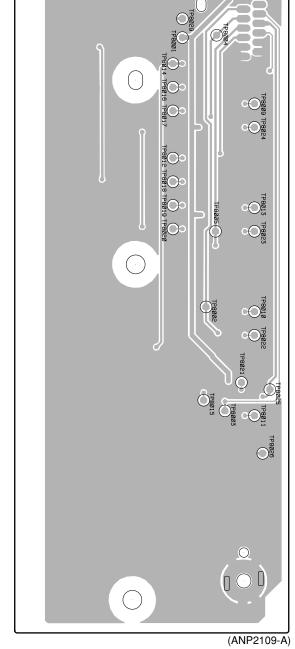
## FRONT ASSY

5



5

LED ASSY



8

В

С

D

Е

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PDP-R06U

## Pioneer sound.vision.soul

## Service Manual

ORDER NO. ARP3233

# PLASMA DISPLAY PLASMA DISPLAY

#### THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Model	Туре	Power Requirement	Remarks
PDP-615EX	WYV	AC220-240V	

This service manual should be used together with the following manual(s).

Model No.	Order No.	Remarks
PRO-1410HD/LUC	ARP3232	

#### **CONTRAST OF MISCELLANEOUS PARTS**

NOTES: • Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.

- ullet The lacktrel mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Screws adjacent to ▼ mark on product are used for disassembly.
- For the applying amount of lubricants or glue, follow the instructions in this manual. (In the case of no amount instructions, apply as you think it appropriate.)

#### **■ CONTRAST TABLE**

В

PDP-615EX/WYV and PRO-1410HD/LUC are constructed the same except for the following:

Cumbal		Symbol and Description	Part No.		
Symbol	Mark		PRO-1410HD/LUC	PDP-615EX/WYV	Remarks
A01		PWB ASSYS MAIN PWB ASSY	937J9M01	937K5M01	
CN-PI		MISCELLANEOUS ELECTRICAL PARTS CN 2-WP(PI) 360W, 1672-18	Not used	7SWXV002	
M23 M57 M77 M77 M80	NSP	MECHANISM PARTS CORNER PIECE RB NAME PLATE ELITE BADGE PIONEER BADGE OVER BEZEL BOTTOM(P)	29F00761 29P06221 29K00811 Not used 29P01521	29F00762 29L06211 Not used 29K00821 29P01581	SPECIAL PARTS
PSC SHT001 SHT001 PK12 PK14	Δ	PRINTED & PACKING MATERIALS POWER CORD E3 L3.0ML INSTRUCTION PRO-1410 INSTRUCTION PDP-615EX CUSHION (BTM-R)E CARTON BOX T(PDP-615EX)	7S552001 7S801721 Not used Not used 29M01071	7S553004 Not used 7S801741 29MS3231 29M01061	SPECIAL PARTS SPECIAL PARTS
PK17 PK33		BAG, POLYETHYLENE(150x370) POWER CORD CASE	Not used 29MS3241	24813191 Not used	